

Rate Analysis Of Construction Items In Excel

In order to determine the rate of a particular item, the factors affecting the rate of that item are studied carefully and then finally a rate is decided for that item. This process of determining the rates of an item is termed as analysis of rates or rate analysis. The rate of particular item of work depends on the following:

1. Specifications of works and material about their quality, proportion and constructional operation method.
2. Quantity of materials and their costs.
3. Cost of labours and their wages.
4. Location of site of work and the distances from source and conveyance charges.
5. Overhead and establishment charges.
6. Profit.

Cost of materials at source and at site of construction: The costs of materials are taken as delivered at site inclusive of the transport local taxes and other charges.

Purpose of Analysis of rates:

1. To work out the actual cost of per unit of the items.
2. To work out the economical use of materials and processes in completing the particulars item.
3. To work out the cost of extra items which are not provided in the contract bond, but are to be done as per the directions of the department.
4. To revise the schedule of rates due to increase in the cost of material and labour or due to change in technique.

Cost of labour - types of labour, standard schedule of rates: The labour can be classified in to

- 1) Skilled - 1st class
- 2) Skilled - 2d Class
- 3) Unskilled

The labour charges can be obtained from the standard schedule of rates 30% of the skilled labour

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provided in the data may be taken as 1st class, remaining 70% as II class. The rates of materials for Government works are fixed by the superintendent Engineer for his circle every year and approved by the Board of Chief Engineers. These rates are incorporated in the standard schedule of rates. Lead statement: The distance between the source of availability of material and construction site is known as "Lead " and is expected in Km. The cost of conveyance of material depends on lead. This statement will give the total cost of materials per unit item. It includes first cost, conveyance loading, unloading stacking, charges etc. The rate shown in the lead statement are for metalled road and include loading and staking charges. The environment lead on the metalled roads are arrived by multiplying by a factor. a) For metal tracks - Lead x 1.0 b) For cartze tracks - Lead x 1.1 c) For Sandy tracks - Lead x 1.4 Every construction project is divided into number of activities. Each activity consists of different types of civil or construction works. For example, the in the construction of a building, the activities can be excavation or earthwork, Concrete work, masonry work, Wood work such as doors and windows, plumbing, flooring, waterproofing, finishing work such as plastering, painting and distempering. The Activity earthwork can be divided into many types based on depth and type of soil. For example, an excavation of 1.5m deep in soft soil, an excavation of 3m deep in hard soil. Likewise, concrete work can be divided into many types based on its mix proportions and its placement. For example, M25 reinforced concrete work in foundation, M30 reinforced concrete work in columns, slabs etc. Likewise, there can

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be many small civil works in every construction project. The cost of any construction project is calculated based on each works associated with every construction activity. Thus it is essential to calculate cost of each small works. Rate analysis of Civil Works or Building Works is the determination of cost of each construction work per unit quantity. This cost includes the cost of material

This book covers the entire gamut of bridge engineering investigation, design, construction and maintenance of bridges. The coverage is not dealt with isolation, but discussed in relation to basic approaches to design of bridges, supported by numerous case studies. Further, the book includes design details of superstructures and foundations. Bridge Engineering has been thoroughly revised to reflect the changes in technology that have occurred in the past. It includes new chapters on grade separators and river training works, with special reference to revised design standards. The book has been specifically designed to suit the requirements of design and practising engineers as well as students in India.

Vols. 76 , 83-93 include Reference and data section for 1929 , 1936-46 (1929- called Water works and sewerage data section)

Presenting a complete step-by-step guide for analyzing capital investment opportunities, this important book helps technical managers discriminate among investments and implement projects in the most cost-effective way. Designed for the professional manager with little formal training in economic analysis, Cost Analysis for Capital Investment

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Decisions analyzes and criticizes discounted cash flow methodology ... develops equations for both discrete and continuous cash flow streams ... examines "irreducibles" that cannot be converted to monetary terms and shows how to combine monetary and nonmonetary attributes ... discusses the impact of inflation on profitability indices ... includes more than 100 line diagrams and over 100 worked problems portraying cash flow patterns and displaying how cost studies are done ... and more. Comprehensive and easy to read, this excellent reference is highly recommended for cost, mechanical, chemical, industrial, electrical and electronics, project, design, and construction engineers/managers; project accountants; budget managers, schedulers, estimators, and planners; and advanced undergraduate and graduate students in the above disciplines. Book jacket.

Originally published in 1987, *Cost-Benefit Analysis in Urban and Regional Planning*, outlines the theory and practice of cost-benefit analysis (CBA) in the context of urban and regional planning. The theory of CBA is developed with examples to illustrate the principles, it also deals with details of the applications and covers issues such as local health and social services provision, local economic development and regional policy evaluation, and planning in less developed countries – as well as the conventional land-use issues of physical planning.

Companies live or die on the basis of estimating their costs. Preparing estimates and bidding for new jobs is a complex and often costly process. There is no substitute for on the job training -- until now. Drawing on the authors' combined experience of more than 70 years, *Estimating Building Costs* presents state-of-the-art principles, practices, a Laxton's gives you access to the most reliable and current data. All 250,000 price elements have been

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individually checked and updated for the 2002 edition so that your estimates are always accurate and cost competitive. Laxton's makes analytical estimating simple and straightforward by displaying a complete breakdown for all measured items under 10 separate headings, all on a single page. This shows you a complete price build-up at a glance - and gives you the option to make price adjustments wherever necessary. You can find the sections you need quickly and easily, via the special marker system on the front cover and page edges. The free CD with this price book contains Masterbill's ESTIMATOR software and fully resourced data on all the price elements in Laxton's. Not only does the CD offer fast and efficient pricing at the touch of a button, it gives details of all the resources required to do the job. Laxton's approximate estimating section gives all in pricing for quick reference on the cost of composite items such as floors helping you calculate the cost implications of using plywood sheeting rather than softwood boarding, for example. Laxton's Basic Price section gives you a quick price on hundreds of items - from concrete work to roofing materials - to save you going through hundreds of lists from suppliers, manufacturers and building merchants. Laxton's Brand and Trade Names section lists over 12,000 brands and trade names and company addresses to help you locate specific items. Latest wage rates, fees and allowances All

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250,000 price elements checked and updated
This work provides principles & techniques for the evaluation of construction design, emphasizing the importance of strong analysis skills & exploring estimation. It aims to provide readers with a balanced & cohesive overview of these two areas. This guidebook provides guidance to state departments of transportation for using specific, practical, and risk-related management practices and analysis tools for managing and controlling transportation project costs. Containing a toolbox for agencies to use in selecting the appropriate strategies, methods and tools to apply in meeting their cost-estimation and cost-control objectives, this guidebook should be of immediate use to practitioners that are accountable for the accuracy and reliability of cost estimates during planning, priority programming and preconstruction. The Code of Federal Regulations is the codification of the general and permanent rules published in the Federal Register by the executive departments and agencies of the Federal Government. In this updated and expanded second edition, Keith Potts and Nii Ankrah examine key issues in construction cost management across the building and civil engineering sectors, both in the UK and overseas. Best practice from pre-contract to post-contract phases of the project life-cycle are illustrated using major projects such as Heathrow Terminal 5, Crossrail and the London 2012 Olympics as case studies. More worked examples, legal

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cases, case studies and current research have been introduced to cover every aspect of the cost manager's role. Whole-life costing, value management, and risk management are also addressed, and self-test questions at the end of each chapter support independent learning. This comprehensive book is essential reading for students on surveying and construction management programmes, as well as built environment practitioners with cost or project management responsibilities.

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