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Rate Analysis Civil

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 charges6. ProfitCost 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 to1) Skilled - 1st class2) Skilled - 2d Class3) UnskilledThe labour charges can be obtained from the standard schedule of rates 30% of the skilled labour provided in the data may be taken as Ist 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 1.0b) For cartze tracks - Lead x 1.1c) For Sandy tracks - Lead x 1.4Every 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 be many small civil works in every construction project.The cost of any construction project is calculated based on each works associated with every

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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

Cost Estimating Guide for Road Construction

Bulletin - United States, Office of Public Roads

State Laws Relating to the Management of Roads Enacted in 1888-'93

Report of the Senate Select Committee on Interstate Commerce ...: Report

Report of the Senate Select Committee on Interstate Commerce ...

Report (with Appendix [and Testimony])

Estimating in Heavy Construction John Wiley & Sons
This book presents the theoretical background as well as best practice examples of estimating in heavy construction. The examples stem from practitioners in international large-scale construction projects. As distinct from other publications on estimating, this book presents specific numbers and costs are calculated precisely. In this way the book helps to avoid errors in the estimating of construction projects like roads, bridges, tunnels, and foundations.

Michigan Roads and Pavements

Official Report of Agreements Made Between the Officials of the Roads Represented and the Committees Representing the Engineers Employed Thereon

Gravel Roads
The purpose of this manual is to provide clear and helpful information for maintaining gravel roads. Very little technical help is available to small agencies that are responsible for managing these roads. Gravel road maintenance has traditionally been "more of an art than a science" and very few formal standards exist. This manual contains guidelines to help answer the questions that arise concerning gravel road maintenance such as: What is enough surface crown? What is too much? What causes corrugation? The information is as nontechnical as possible without sacrificing clear guidelines and instructions on how to do the job right.

Investigation of the National Defense Program

The Transportation Situation in the Summer of 1945

Bulletin - United States, Office of Public Roads

Chemical Admixtures

Hearings Before the Committee on Roads, House of Representatives ...

Annual Report

Journal

Senate documents

Annual Report of the Railroad and Warehouse Commission of the State of Illinois

American Miller

Bulletin

Official Report of Agreements Made Between the Officials of the Roads

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Railway World

Report

Determination of Contract Time Durations for ISHC Highway Construction Projects

Annual Report of the Corporation of the Chamber of Commerce, of the State of New York, for the Year ...

Federal Register

Report of Special Committee on Rail Roads and Telegraphs

Interstate Commerce Commission Reports

Congressional Record

The Congressional Record is the official record of the proceedings and debates of the United States Congress. It is published daily when Congress is in session. The Congressional Record began publication in 1873. Debates for sessions prior to 1873 are recorded in The Debates and Proceedings in the Congress of the United States (1789-1824), the Register of Debates in Congress (1824-1837), and the Congressional Globe (1833-1873)

Reports. Decisions

Report

Biennial Report of the Alabama Public Service Commission

Arguments and Statements Before the Committee on Commerce in Relation to Certain Bills Referred to that Committee Proposing Congressional Regulation of Interstate Commerce

Annual Report

Votes & Proceedings

Annual Report of the Board of Railroad Commissioners of the State of California

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