

Pwd Civil Works Rate Analysis

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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 provided in the data may be taken as 1st class remaining 70 as 2nd 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 expressed 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 $\times 1.0$ b for cart tracks lead $\times 1.1$ c for sandy tracks lead $\times 1.4$ every construction project is divided into number of activities each activity consists of different types of civil or construction works for example 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 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

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infrastructure work is still declining although there are plans to release 1.3bn worth of road network schemes over the next few years network rail has published plans to spend 38bn on upgrade works over the next five years water firms are to bring forward 400m of work into this financial year spon s civil engineering and highway works price book 2015 from aecom gives costs for both general and civil engineering works and highway works and provides a full breakdown of labour

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output in infrastructure is forecast to rise by 6.6 in 2013 7.6 in 2014 driven by highways agency s capital budget funding by rail and by electricity spon s civil engineering and highway works price book 2014 gives costs for both general and civil engineering works and highway works and provides a full breakdown of labour plant and mate

construction management agreement files building construction item rate quotation files for civil engineer architects contractors there are two ways to go ahead with construction for a building either give it to building contractors who take care of all materials required for construction or one can give it to a labour contractor who can execute the project labour rates for shuttering g footing columns plinth beams slabs lintel rcc bar bending steel fabrication masonry plastering etc link book type digital e book construction management toolkit 1 excavation in hard soft soil for foundation and removing the excavated earth to a distance not exceeding 50 m and with a lift up to 1.5 m in hard soil 2 providing and laying granite jelly concrete using 40 mm down size jelly for foundation and well compacted curing etc complete in cement concrete 1.4.8.3 providing and constructing granite or trap size stone masonry with bond stones 2m apart in each course including curing etc complete as per specification in cement mortar 1.8.4 providing and laying granite or trap jelly cement concrete using 20 mm down size including curing etc complete in cement concrete 1.3.6 for plinth beam etc mode of payments upi debit credit cards net banking features one time payments lifetime access downloadable printable no hidden charges no expiration for more info and inquiries kindle direct message engineer spot ph officials outlook com download pathway internal storage file manager download sample of agreements between building owner and contractors agreements construction constructionmanagement constructionequipment constructionsite constructionlife generalcontractor buildingagreements civilagreementscopy civilengineervsbuildingonwer paperhouseconstruction civilnap civilengineering constructionsite constructionindustry constructionlife buildingmaterial buildingconstruction buildingdesign material buildingmaterial structural drawings structuralengineering architectedesign architecture dreamhome greenhouse civilstudents engineeringstudents civilagreementscopy

estimators need to understand the consequences of entering into a contract often defined by complex conditions and documents as well as to appreciate the technical requirements of the project estimating and tendering for construction work 5th edition explains the job of the estimator through every stage from early cost studies to the creation of budgets for successful tenders this new edition reflects recent developments in the field and covers new tendering and procurement methods the move from basic estimating to cost planning and the greater emphasis placed on partnering and collaborative working the new rules of measurement nrm1 and 2 and examines ways in which practicing estimators are implementing the guidance emerging technologies such as bim building information modelling and estimating systems which can interact with 3d design models with the majority of projects procured using design and build contracts this edition explains the contractor s role in setting costs and design statements to inform and control the development of a project s design clearly written and illustrated with examples notes and technical documentation this book is ideal for students on construction related courses at hnc hnd and degree levels it is also an important source for associated professions and estimators at the outset of their careers

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