

## Pwd Civil Works Rate Analysis

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*Swamy Rk Davis Langdon and Everest Davis Langdon and Everest Davis Langdon AECOM AECOM AECOM Davis Langdon Carillion Services Sasikumar Sadiyappan William Macfarland Patton Phillip F. Ostwald American School of Correspondence Charles Lee Crandall Arthur Moffatt Lang American School (Lansing, Ill.) Great Britain. Department of the Environment. Directorate of Statistics*

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 2nd 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 cartze tracks lead  $\times 1.1$  c for sandy tracks

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 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 plant and material elements with labour rates updated in line with the latest cijc wage agreement beyond prices it can be used as a comprehensive work manual for the uk s civil engineering surveying and construction business use the access code inside the front cover of the book to get set up with internet access to this edition until the end of december 2015 we now provide spon s online a versatile and powerful online data viewing package which replaces the estimating software and ebook of recent years this 29th edition incorporates a comprehensive review throughout updated to come into line with the cessm4 structure as well as mmhw and with an expanded range of rail elements

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

the schedule of rates is the best known rate guide in the construction industry and is the standard document used in public sector construction work it contains over 20 000 rates spanning the whole range of building works and materials from acid resisting asphalt flooring through to zinc secret guttering this is the first new edition for five years and can be used for both new and maintenance work

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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

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