

Planning and Scheduling of a Suspension Cable Bridge Using Project Management Tool Primavera P6

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ABSTRACT

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Attributable to an augmenting context of environment, Construction industry is ever upfront for the development and advancement in tools and equipment features, tools of communication, techniques of efficient management, educating the human resources about it. This unique specialization necessitates highly focused whose construction was planned to start at Bhopal, Madhya Pradesh, India. Project Planning and Controlling tools or techniques. In the current study, implementation of the computer based Project Management software/tool Primavera P6 for the Planning, Scheduling and Allocation of resources for a Suspension Cable Arch Bridge It helps to know the resemblance between the planned the planned progress of construction work and actual progress of the performed work. Thus the essentiality and the advantages of using Primavera will be outlined through the data results obtained. The acceptance of the software Primavera as a platform of scheduling is been on a boom in Multi National Construction Companies, but due to ignorance and lack of Project Management concepts and discourage towards the use of computer based programs, small and medium scale Indian construction companies confront various issues such as inefficient planning, project delays, inefficiency of resources and many other issues. Therefore, attempt to educate one such medium scale construction company about the advantages of Primavera in execution of any construction projects efficiently.

Keywords : Planning, Scheduling, Resources allocation, Primavera P6, Resource levelling

I. INTRODUCTION

In today's world construction industry is one of the most widely used and rapidly booming industry of our nation and across the world. Hence, it is considered to be the second largest industry of India

in terms of generating huge amount of revenue and employment. Though the construction and infrastructure industry being second largest industry of our nation (India), the identity and recognition of this industry has not been grown in all dimensions of the country. Especially, at the remote places like small villages, rural places and the large part our country is by these small villages and rural habitats.

Therefore there is a requirement of certain tools and techniques for the improvement of national economic upliftment, adequate land use and their environment planning to manage with the level of improvement in town and urban areas and the time required to tackle this goal can be shortened. There is an intense necessity for effective Project Management.

Project Planning is a general and most common term in construction management which refers to attaining the expected goals and destinations. Planning is the key to bring the expected projects into reality or into existence. Therefore, the term 'Project Planning' has been used at various platforms to get the close meaning of different things. Generally, planning involves the breakdown of the undertaken whole project works into small definable, identifiable and quantifiable tasks or activities or works and then constitutes the logical interdependencies between them. Basically, the process of Planning refers to 3 dominant questions, they are as below

- i) What is to be done..?
- ii) Who does it..?
- iii) How to do it..?

Scheduling refers to slotting out the time duration by the thorough and explicit analysis of the planning team to each and every activity to know the final project duration and the project delivery date. In other words, it governs the timing of each work activity recognised by the planning process before or during project execution. Typically, it shows and signifies the sequential order or phasing of various individual project activities in a systematic way to complete the project. The schedule is a tool or a technique of every project management team which is used and practiced to predict the most probable project completion time and thus enabling the in/on-time resource conception which are budgeted on the particular work.

The general steps to develop a proper schedule are as follows

1. Proper time estimation of every activity.
2. Project planner should know the obligations of time for the project completion and delivery.

3. The activities such as must start and must finish should be established well in recessed.
4. Sorting out of activities which are crucial to the timely completion of the project should be recognized and kept in mind.



II. CONCLUSION

This paper reviews intensively about the great potential of biological method, using the bacteria capable of precipitating concrete can produce cost-effective strong or durable structures.

III. REFERENCES

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