

Assesment of Resource Management By Using Primavera Software

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Abstract- *Planning and resource management helps in future situation and implementation of project management using PRIMAVERA gives good controlling, monitoring and clear schedule to a project. Resource management reduces the loss of the project which may be caused due to the huge variations in the usage of the resources. Resource management is a big issue which needs to be resolved in order to avoid delays in the project. Resource management helps an organization to make use of the available resources to the maximum. The idea behind resource management is to reduce wastage of resources in construction i.e. to stop under allocation of resources. In real project management environment, a penalty is imposed if a project completes after its due date. Some projects carry higher penalty than others. In this project manager can make a trade off among the projects penalties and can develop the cost effective project schedule and time period resource management properly allocated the resources, which satisfies the customer requirements. A project manager always has pressure to satisfy the demand of its stakeholders in terms of cost, quality, time and scope.*

I. INTRODUCTION

Working construction project with primavera software is like a working in group of different activities with a systematic work breakdown structure. In construction project work there are various activity needs to be planed and controlled properly [1]. Primavera is a very advance computer integrated enterprise project resource management tool. In construction project there are different activities and that activities needs to be planed and monitored properly. In construction industry resource management is a key step. Sometimes project managers speak of resource-constrained scheduling when resource availability and work capacity are the primary factors that determine a project's deadline. India is a under developing country so economy of India is directly or indirectly related to the construction so there should be proper construction management with respective cost and time. Primavera manages the all different activities there is a many designing project software's are use like AutoCAD, rivet which we can get maximum project profit at shorter time. Resource Scheduling refers to the set of actions and

methodology used by organizations to efficiently assign the resources they have to jobs, tasks or projects they need to complete, and schedule start and end dates for each task or project based on resource availability. Resource management is a key success of any organization and primavera software strengthen the project work properly within a shorter time period.

A comprehensive literature review has been conducted to establish a solid starting point to pursue the proposed study. The literature review focused on investigating and analyzing current practices as well as relevant research studies in planning for resource utilization in construction projects. This chapter summarizes and organizes the reviewed literature in two main sections: - 1) the requirements of resource utilization plan in construction project. 2) Construction resource utilization optimization model The relevant literature on Study on Resource management for Construction Project was reviewed and presented here.

II. STATE OF DEVELOPMENT

S.K Nagarjun and B. Shivakonda Reddy 2012 reported on the purpose of this paper focuses in the perspective of a planning and scheduling with respect to conventional method demonstrate the benefits of using primavera with construction project management. With the help of primavera software Primavera, and Visual Studio to assist construction managers in controlling and monitoring construction progress. Primavera software give Successful project control in construction is a challenging responsibility for all construction managers but when it is complimented with visualization of information, the job becomes easier and we can easily control the project work and manage the each and every activity by primavera software.

DeeptiSahu,A.K Jain 2017 reported on the purpose of this paper construction industry is an integral component of a nation's infrastructure and industrial growth. Even though construction industry is the second largest industry in India, the growth of this industry has been differential across the nation. Planning, scheduling, and resource management,

tracking and application are the major parameters in construction project. This study involves tracking of the ongoing construction work and management of a new building using Primavera software. The tracking of the project during construction is necessary to control the variance and know the cost of project. Construction planning is one of the important tools in construction with the help of proper planning management the work done properly without any obstructions. In the present study the tracking and forecasting was done by a method called Earned Value Management (EVM). The important thing in project is the work should be on tracking.

A.Kastor, K. Sirakoulis 2009 reported on the purpose of this paper study is taken for CPM has been widely used for project construction like scheduling, resource management, helping managers to guarantee the in time and on budget completion of the project. CPM provide useful information for the projects such as the critical path CPM is based on the assumption that there are unlimited resource for the execution of the activity with the help of CPM we found the critical path of our project and time period also.

Hamed Zaidostan, mohammadmahigholipoor 2013 reported on the purpose of this paper studies have shown that the Primavera application has positively impacted the productivity of planning processes and later its execution in project. Its potential impact on the entire life-cycle of construction project. Some high potential parameters which significantly affect the project results are discussed. In this research study the resource management properly for project. Primavera application is effectively manage the overall work of projects and effectively manage the all resources regarding project work.

SK. Nagaraju, B. Sivakonda Reddy. August 2012 reported on the purpose of this paper planning and scheduling is very important in construction resource management saving the cost and time of project. With proper resource management defining labor task and determining sequence in activity. In construction second activity can not start before previous one finish because due to resource constrained. The present study deals with resource scheduling for a fast track project with constrained durations. The study has been carried out with Primavera and manages all resources and activity.

Hong Hai Tran and Nhat-Duc Hong 2014 reported on the purpose of this paper resource leveling belongs to the class of combination enough popularity. One of the reasons is due to lack of research works done to quantifying the benefit of especially in construction time saving. Resources in construction projects consist of manpower, equipment, money, labor and material. Proper resource management holds the key

to construction success accomplishment with such scenario, this study conducted to quantify evidence of time saving in resource leveling application. In many research attempt the use of MSP software but it gives the heuristic approaches to completion of project and this thing not satisfied to the project manager. In this research paper use the application of the evolutionary algorithms (EAS) for resource management.

Akshay.R.Kohli 2017 reported on the purpose of this paper activity manages in project to achieve the profit and time. Project management technique is important in resource management and planning. Such as Critical Path Method is oldest method to manage the project, various project use this method like Australia, Canada. These techniques help project management to understand the availability of resources. For large scale construction project it is difficult to preparing proper planning management for proper management MSP and Primavera planner are used in project. With proper management techniques resolve resources and minimizing the loss of resources and time. In this paper analyze resource constrained using MSP and compare time, cost and schedule.

Hitanshu Saini, Khushpreet Singh, Uma Malik August 2017 reported on the purpose of this paper for the successful completion of a project, proper planning and scheduling is very important with the help of proper planning project completed within the target time period. Construction required proper scheduling and resource management. Due to high work loading department required good technology to control and monitoring the workload properly without creating the difficulties in construction. To overcome these difficulties there is so many project software is used as a tool for managing and organizing work. With the help for these software proper planning and controlling of project can be done. Primavera can easily compare the resources and activity for task. Primavera software have the capacity to record multiple task and activity and maintain proper sequence between two successive activity. Controlling and monitoring can be done and the causes of delays can be found out. Software gives the effectiveness in all project work and manages properly without delay in work.

III. CONCLUSION

This paper focuses only on the literature review of previously published studies. The findings of this study the resource management properly for project. The study has been carried out with Primavera and manages all resources and activity. Primavera application is effectively manage the overall work of projects and effectively manage the all resources regarding project work. With proper management techniques resolve resources and minimizing the loss of

resources and time .in this paper analyze resource constrained using Primavera and compare time, cost and schedule.the job becomes easier and we can easily control the project work and manage the each and every activity by primavera software.

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