

Application of Microsoft Project Software in High-Rise Buildings.

Manish K. Mahajan, P. M. Attarde

Department of Civil Engineering, Shri Sant Gadge Baba College of Engineering and Technology, Bhusawal, Maharashtra, India.

Submitted: 15-05-2022

Revised: 20-05-2022

Accepted: 25-05-2022

ABSTRACT

construction of a High-Rise building could be a very lengthy process. It involves an outsized number of activities that are to be performed by different teams belonging to different age groups, cadre, level of skills and expertise. Also, the quantity of activities to be performed is variable and sophisticated in nature. Also, it involves an enormous amount of cash still as proper management of manpower and resources. So, to satisfy all the above requirements, a correct project management should be adopted so on give possessions to the shoppers on time and maximize the efficiency. Project management software can become a boon in managing the project efficiently. due to traditional trend and easy use Microsoft Excel is generally preferred at construction sites. With advancement in technology usage of recent and more efficient software is that the need of your time. This paper aims to focus on the necessity of Microsoft Project software in High-Rise building construction project on the idea of an internet survey.

I. INTRODUCTION

The future of India is what Indians are building today, and also the Indian goals together with other means and resources will allow the state to see the long run of the country. India has suffered greatly in recent decades as a result of occupation, closure and lack of resources. Construction Industry in India has increased significantly within the recent decade. Construction could be a complex activity that

II. METHODOLOGY

- Determination of objective
- Determination of scope of study
- Study of Literature review
- Conducting Site Visits
- Understanding of Microsoft project software
- Preparation of cost estimates, budget
- Resource management

involves proper planning and management of resources and capital. The projects nowadays have become complex in nature. Management of projects is assuming greater and greater importance. Whether a project is little or large, simple or complex of the commercial or service sector, the requirement to complete them most efficiently and make them operational within set targets is quite critical. The delay means not only greater capital costs but also loss of future gains. In spite of best intentions and efforts in most of the projects in central government, public sectors additionally as some private sectors the magnitude and incidences of cost and time over runs are alarming. the standard of projects in most cases is additionally poor. Time and value are always critical and wish special attention. Construction Firms in India, Construct the Projects during a Traditional ways which sometimes proves to be Uneconomical & Tedious too. Traditional way also proves to be Time Consuming and Confusing. it's now become a formidable challenge which may only be met by adopting innovative construction technology. With the necessity of your time and technology change, using software in construction project management arises to be the simplest suitable choice to cope up with the matter. Microsoft Project may be a project management wares which is developed and sold by Microsoft. It assists a project manager to develop a schedule, assign resources to tasks, track progress, manage the budget, and analyse workload.

- Implementation of software
- Bottom of Form

MSP SOFTWARE

- Microsoft project is a project management software product, developed and sold by Microsoft. it is designed to assist a project manager in developing a schedule, assigning

resources to tasks, tracking progress, managing the budget, and analysing workloads.

- The scheduling of the entire project has been done in MSP software.
- All the activities, duration, resources, cost have been added in the software.

ONLINE SURVEY

An online form was generated using forms application and shared to be filled up by people related to engineering field. One hundred people took part in survey and filled up the shape. during this form general questions

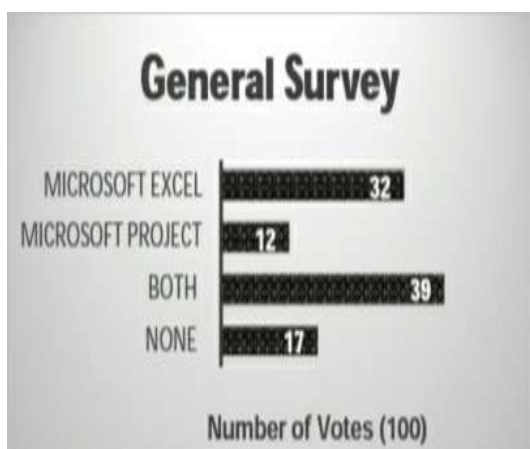


Fig. 1 General Survey

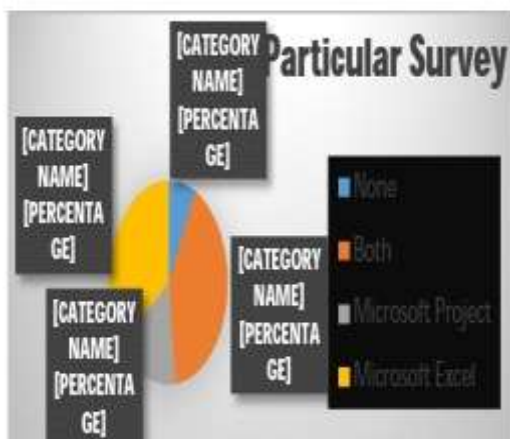


Fig. 2 Particular Survey

III. RESULT AND DISCUSSION

From General

Survey it's observed that 39 out of 100 people have chosen option of using both software i.e., Microsoft Excel and Microsoft Project. Also 32 out of 100 people have chosen Microsoft Excel which is sort of over votes of Microsoft Project. From Particular Survey it's seen that 41% of

were asked regarding usage and experience of software in Project Management. Survey is categorized in two parts as general survey and particular survey. General survey consists review from people of various designations. Particular survey consists reviews from only those who have worked in multistoried building construction project. The response of online survey is summarized in sort of chart and chart as shown in figure 1 and figure 2. during this survey comparison is formed between Microsoft Excel and Microsoft Project.

individuals who have worked in multistoried building construction project have used both software. 35% people have only used Microsoft Excel and this figure is double the employment of Microsoft Project by people in multistoried building construction project. In both surveys it's seen that there are still folks that don't seem to be familiar to any of the project Management software.

Accurate and efficient planning and scheduling was done on MSP software made easy working and better results with quick improvisation of corrections and solving problems. On the basis of assumptions of the future challenges or difficulties, corrective action was shown in the software like lagging of activities.

IV. CONCLUSION

The study shows that an outsized number of individuals are still using Microsoft Excel as Project Management software. Microsoft Project is lagging behind Microsoft Excel in terms of usage by an outsized amount. The literature study shows numerous advantages of using Microsoft Project in High-Rise building construction project. Online survey shows that an outsized number of individuals suggested Microsoft Project together with Microsoft Excel. From literature study and online survey, it's concluded that upgrading to Microsoft Project as Project Management Software is that the need of your time. Also, there's good future scope for conducting research on this study.

V. ACKNOWLEDGMENT

I would like to express my profound gratitude and great appreciation to my guide Prof. P. M. ATTARDE, Professor at Civil Engineering Department for his valuable advice, constructive suggestions, guidance and encouragement throughout this work.

REFERENCES

- [1]. Construction engineering and management, Dr S. Seetharaman.
- [2]. Planning and scheduling of multistory building using MSP, Pooja Tripathi.
- [3]. High rise building, Wikipedia.
- [4]. Challenges of construction of high rise building in India, Nanadkumar Chavan.
- [5]. Role of construction manager in high rise building.
- [6]. Ch. Chowdeswari, D. Satish Chandra and SS.Asadi, Optimal Planning and Scheduling of High Rise Buildings, International Journal of Civil Engineering and Technology (IJCIET), ISSN Print: 0976-6308 and ISSN Online: 0976-6316, January, 2017, pp. 312–324.
- [7]. Chourajit K Sharma, Jay A Mistry, Ravi V Gohel, Vishal B Chauhan, Amit N Bhavsar, Study of MS Project Software and Its Application in Construction Project and Case Study at Anand, International Journal of Advance Research and Innovative Ideas in Education (IJARIIE), ISSN(O): 2395-4396, 2016, pp.2862-2870.
- [8]. Rhuta Joshi and Prof. V. Z. Patil, Resource Scheduling of Construction Project: Case Study, International Journal of Science and Research (IJSR), ISSN(Online): 2319-7064, May 2015, pp. 563-568.
- [9]. Monish Kumar K, Maheshwar S Maregoudru and Sparsha B.P, Construction Project Scheduling of MK Apartment Using MS Project 2013, International Research Journal of Engineering and Technology (IRJET), e-ISSN: 2395-0056 and p-ISSN: 2395-0072, July, 2017, pp. 2275-2279