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IJERTCONV9IS03032	Scheduling and Estimation of Residential Structures using Primavera	Hansashree Govindrao Pawar, Mithil Prasad Shirke, Jatin Sanjay Sawant, Professor Vikrant Kothari
IJERTCONV9IS03033	Study on Structural Behaviour of Earth Slab Panel Confined by G. I. Wire Mesh	Shreya Ghosalkar, Kushal Patel, Abhishek Parmar, Sandesh Uttekar, Jaydeep Chogale
	Experimental Studies on Pervious	Vaibhavi Bari, Himani





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## Certificate of Participation

This certificate is presented to Mr. Viren Chandanshive

Vidyavardhini's College of Engineering and Technology

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NTASU6015 Development of Work Breakdown Structure for Residential Building Construction Project- A Case Study

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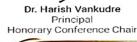
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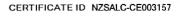








MUMBAI CENTRE



# **Development of Work Breakdown Structure for** Residential Building Construction Project- A **Case Study**

Paras Vairagade U.G. Student, Dept. of civil engineering Vidyavardhini's college of engineering and technology Vasai (W), Maharashtra, India

Lovelesh Khatarkar U.G. Student. Dept. of civil engineering Vidyavardhini's college of engineering and technology Vasai (W), Maharashtra, India

Pakshal Shah U.G. Student. Dept. of civil engineering Vidyavardhini's college of engineering and technology Vasai (W), Maharashtra, India

Viren Chandanshive

Asst. Professor

Dept. of civil engineering Vidyavardhini's college of engineering

and technology

Vasai (W), Maharashtra, India

Shashank Shetye U.G. Student, Dept. of civil engineering and technology Vasai (W), Maharashtra, India

Vidyavardhini's college of engineering

Abstract-In project management proper arrangement in setting the progress is the essential element. Planning is an initial step for each and every work in management field. Planning serves as the base work executing, monitoring, controlling and closing of the project. Hierarchical decomposition of the goal objectives, activities, sub activities and work package is done by work breakdown structure which involves managing the project. This study deals with planning, scheduling, tracking of a residential building using work breakdown structure. The work breakdown structures provide the general idea about the interdependencies of the activities which will be helpful during the project monitoring.

Keywords-Planning, scheduling, Microsoft project, work breakdown structure.

### I. INTRODUCTION

A work breakdown is an essential component for any software project since it defines the details of the work that is necessary to accomplish a project's objectives. From the very early stage of submitting a project proposal, it is important to formulate the content of the project via a WBS. Such an early WBS formulation enables project needs to be better defined, and the resource and time estimations required to complete the project to be improved. Nevertheless, it is important to note that the WBS of a project changes over time, according to altering needs and constraints. In other words, although the WBS should be introduced at the very early stage of the project, it will be permanently exposed to changes, which should be properly presented in the WBS. The preparation of the WBS has an impact not only on the planning, but also on organizational level.

### II. LITERATURE

A. A case study on highway project

This paper provides a proper method for planning, scheduling and Recourse utilisation in construction projects and an application of activity-based computerised (MSP and MS Excel) planning, scheduling.

B. Resource scheduling in construction project using MSP A case study of a project in Pune, Maharashtra, India was considered for finding out various aspects required in efficient planning and execution of the project. Various journal papers were referred to find out different methodologies to be

adopted.

C. Application of MSP for time and cost management in real estate construction

Real Estate construction projects refer to the construction of habitable spaces like Residential, Commercial buildings. These projects have Sponsors who invest money while the rest other teams to manage the project & it's construction.

D. A review on scheduling of construction project by MSP

The main aim of any construction project is not only to execute or complete it, but the main aim of any project is that, it should be that to complete it within given time limit, with greater efficiency and economy, which is very essential in successful completion of project.

E. Planning and scheduling of project using MSP

For finding out various aspects that proves efficient planning & execution of the project, disparate methodologies adopted and to find out remedial measures, international journal papers were referred. The method adopted includes defining of problem statement, insinuating the objectives from the data collected in two part viz. Primary data and secondary, analyzing the data and finally coming to the conclusion.

F. Planning and resource scheduling of residential project (G+7) using primavera

It concludes that by using the primavera, a time period of 4 months from the actual base schedule of the project was saved and also helps to prevent the cost overrun, thereby ensuring the successful completion of the project.

G. Planning and scheduling residential building using primavera software

The main objective of this project is to prepare the proper planning and scheduling and timely completion of two storey residential building construction at Dindugal. This project can