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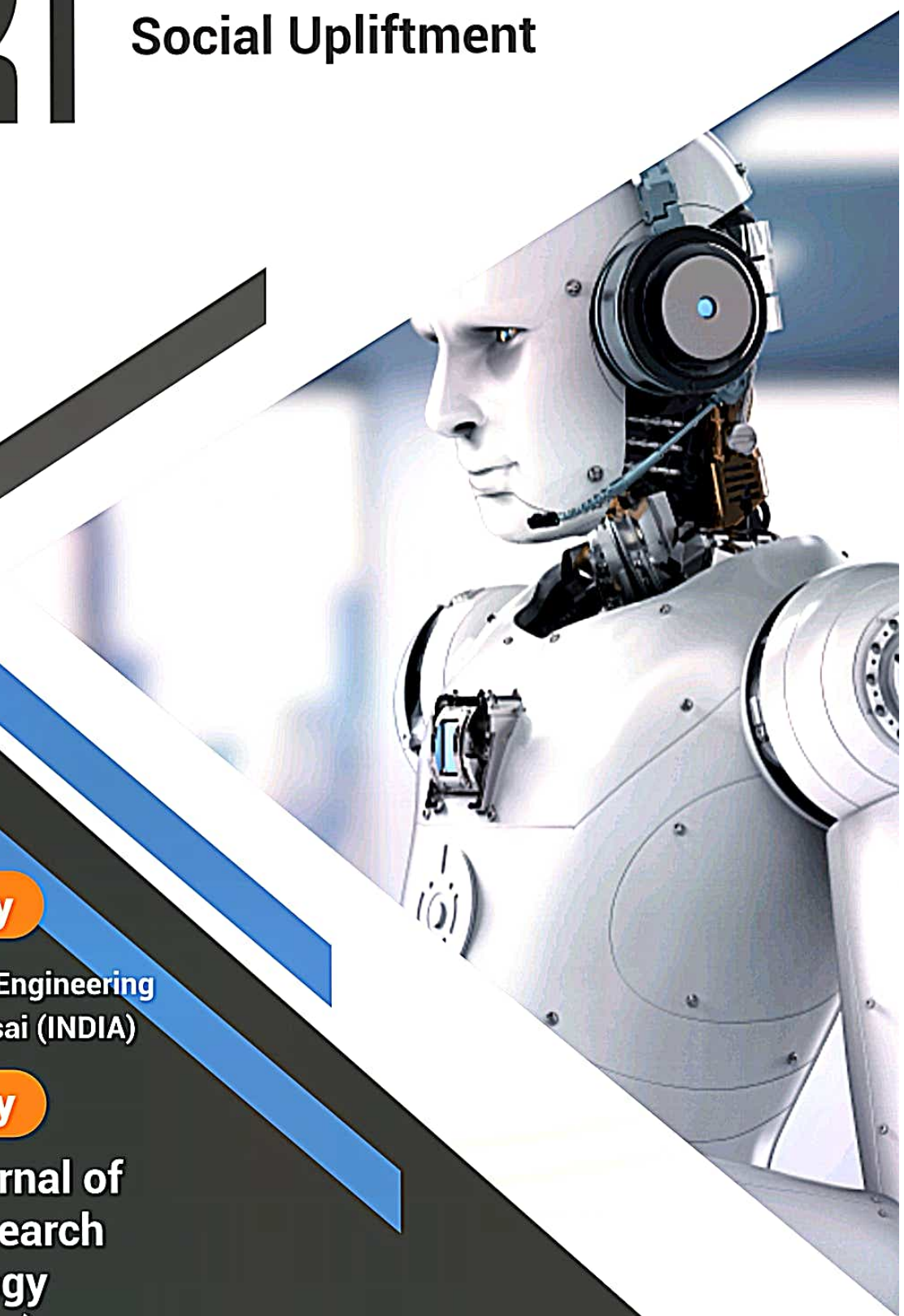
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Scheduling and Estimation of Residential Structures using Primavera

Hansashree Govindrao Pawar

Department of Civil Engineering Vidyavardhinis College of Engineering & Technology

Vasai, India

Mithil Prasad Shirke

Department of Civil Engineering Vidyavardhinis College of Engineering & Technology

Vasai, India

Jatin Sanjay Sawant

Department of Civil Engineering Vidyavardhinis College of Engineering & Technology

Vasai, India

Asst. Professor Vikrant Kothari Department of Civil Engineering Vidyavardhinis College of Engineering & Technology Vasai, India

Abstract This Construction Industry all over the globe is at its prime. Every year with every project executed a new benchmark is set up. Considering the augmented population there enhances a need in detailed, well executed projects completed within the time constraint. On the other hand, keeping in mind the complex construction the quality of the outcome cannot be neglected. Such an activity can only be executed under precise observations, accurate results and diligent work management. When such projects are undertaken there are a lot of things at stake. Traditional methods adopted for the construction can do very little to help with the cause. Such are the cases when high end softwares come in hand. The success of any project lies in the efficient management of time, quality and cost. Primavera is such a software which helps us with the cause and resolves our problems regarding wastage of time, money, manpower and resources. On the other hand, it helps us compare multiple projects at the same time and helps us track progress of the same. In our project we use cases which include scheduling and estimation of residential buildings which will be observed and managed until its final execution based on scheduled activities and resources from time to time under precise

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Hanshree Govindrao Pawar
Department of Civil Engineering
Vidyavardhini's College of Engineering & Technology
Vasai, India

Mithil Prasad Shirke
Department of Civil Engineering
Vidyavardhini's College of Engineering & Technology
Vasai, India

Jatin Sanjay Sawant
Department of Civil Engineering
Vidyavardhini's College of Engineering & Technology
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Asst. Professor Vikrant Kothari
Department of Civil Engineering
Vidyavardhini's College of Engineering &
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Abstract—This Construction Industry all over the globe is at its prime. Every year with every project executed a new benchmark is set up. Considering the augmented population there enhances a need in detailed, well executed projects completed within the time constraint. On the other hand, keeping in mind the complex construction the quality of the outcome cannot be neglected. Such an activity can only be executed under precise observations, accurate results and diligent work management. When such projects are undertaken there are a lot of things at stake. Traditional methods adopted for the construction can do very little to help with the cause. Such are the cases when high end software's come in hand. The success of any project lies in the efficient management of time, quality and cost. Primavera is such a software which helps us with the cause and resolves our problems regarding wastage of time, money, manpower and resources. On the other hand, it helps us compare multiple projects at the same time and helps us track progress of the same. In our project we use cases which include scheduling and estimation of residential buildings which will be observed and managed until its final execution based on scheduled activities and resources from time to time under precise observations.

Keywords—Project Management, Primavera p6, Work breakdown structure, Delay analysis; Extension of time; Scheduling; Estimation

I. INTRODUCTION

Construction Industry from all the corners and capitals of the world are working to provide majority of its clients with detailed and satisfactory projects. The major aim of these industries is to serve major amenities within feasible standards. In the process of executing and providing such facilities the construction Industries have started to compete in a race to acquire a place at the apex of major construction benchmarks. This to achieve however is not an easy task since the construction industries face various milestones which are a part and parcel of today's construction generation. It is a rapidly

growing industry and attains the spot for the second largest industry in India. However, the execution of the activities included in this process is challenged when the project is to be executed at small villages under traditional methods with rural habitats and mundane construction tools. This has to be resisted with proper use of software's, construction tools to uplift the economy generated with sufficient land use and to contain the overall time required to complete the project. This can be achieved with proper scheduling of the project followed with detailed estimation of the project to make sure majority of the tasks are in a sequential order and allow us to set up an overall economic constraint. The project must be planned properly followed with scheduling and estimation

II. LITERATURE REVIEW

- 1) Vishal Annappa Nimbale, Prof. Balasaheb Jamadar (July 2017) After referring the study, we get to know various points related to scheduling under precise time constraint and how to execute them accordingly in medium to large scale projects with Primavera P6.
- 2) Unmesh. Y. Polekar and Rohit. R. Salgude, Dept. of civil engineering, Pune (May 2015) In this study we evaluate that various defects in planning, scheduling can be overviewed and organized with the help of Primavera p6.
- 3) P. Manikandan, Asst Prof. Dept of Civil engineering (March 2019) This study helps us understand how to contain construction disputes by reducing the time and preparing a cost effective project using primavera. It also gives information regarding scheduling of the project effectively.
- 4) P Raghunath Reddy, P. G Student Dept. of Civil engineering, Shri Sai Shirdi institute of science and engineering client's project to be completed
- 5) Prabhat Kumar Sinha (2013) This paper is a conceptual reference in which the author aims at completing project within allotted time frame with minimal disputes and organized activities with minor or negligible economic loss followed with appreciable