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STUDY OF CONSTRUCTION DELAYS IN AMRAVATI CITY AND STUDY OF CONSTRUCTION PRACTICES IN THE CITY

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Abstract: *The construction sector in India is one of the most important contributors to the country's economic growth and development. With low production costs and the planned performance of the construction industry in India, there are two major challenges limiting the development of this sector in the country. The project includes construction As a result, in this the purpose of this study is to fill in a critical information gap. By identifying various factors that cause construction problems and using them as a starting point, we consider the construction of objects, housing construction. Provided are the results of a survey that was conducted on the relative importance of entrepreneurs and consultants that were determined using the Relative Importance Index. (RII). The results showed that there were no products on the site, as well as unexpected technical conditions. Weather conditions, lack of planning, procurement, not getting the facility, conditions, lack of modern equipment, staff training by inadequate working conditions, equipment failure, contractors and consultants were identified as the main reasons for project delays in India. It is assumed that the construction of the most advanced line of players who focus their attention on the important variables that have been discovered, and their level of environmental impact, have been quantified, with the result that it may be that among the contributing factors occurred in the housing sector, India: a significant reduction or control that will eventually lead to the completion of the project on schedule.*

Keywords — Planning, Project Delays.

I INTRODUCTION

The construction industry is the second largest area in India, followed by agriculture. It contributes greatly to the national economy and employment, providing a large number of people. But the construction sector is unstable and requires huge financial investments. As a rule, the case is there, below the rate of return, against the amount associated with its risk. In the case of construction delays, it may be established that it is already the time or after the completion date specified in the contract, or after the date that the parties have agreed to deliver the project. A delay occurs every construction project and most of this delay varies significantly depending on the project. Delays in project implementation are a universal phenomenon.

1.1 Causes of Delay:

- Owner: Owner related delay caused due to reasons such as late payment and poor communications between owner and other parties.
- Contractor: Delays caused due to difficulty in financing the project by contractor, improper site management, conflicts between contractor and other parties, poor planning and scheduling of activities.
- Consultant: Delay in performing inspection, delay in reviewing and approving design documents.
- Design: Revisions in design documents, improper design and subsequent redesigning.
- Labor: Shortage of labors, unskilled workforce.

- Equipment: Shortage of equipment, low productivity and efficiency of equipment.
- Project: Contract duration is too short, legal disputes between various parties.
 - Materials: Delay in material delivery, availability of materials, changes in type and specifications of materials.
 - External: Delay in obtaining permits from municipalities, accidents, bad weather, changes government rules and regulations, social and cultural factors.

Construction sector is a catalyst for economic growth as it stimulates development in other sectors (Ismail, 2007). Construction projects provide the basic infrastructure requirements of housing, connectivity, water supply and power. It is essential that this infrastructure is continually developed and upgraded to meet with the ever growing population and demand. However, construction projects are plagued by a phenomenon of global occurrence:

"Delays & Cost Overruns". Delays in construction projects are a global phenomenon (Sambasivan and Soon, 2007). Time delays and cost overruns are among the most common phenomena in the construction industry (Koushki et al., 2005). The effects of delays in construction projects are not confined to the construction industry but influence the overall economy of a country (Arditi et al., 1985). Completing projects on time is an indicator of efficiency, but the construction process is subject to many variables and unpredictable factors, which result from many sources (Assaf and AlHejji, 2006). Even with today's advanced technology, and management understanding of project management techniques, construction projects continue to suffer delays and project completion dates still get pushed back (Stumpf, 2000).

II. LITERATURE REVIEW

Aedwin Regi Varghese et. al. Time, quality and economy are the three most important factors in a construction project, which plays an important role in the construction process. Delay, any question or action has time delays that affect the execution of work. The most common problems encountered in civil engineering and projects around the world are primarily caused by delays in the construction process. These problems usually occur during the project implementation period, and cause disputes and litigation's. That is why it is important to study and analyze the reasons for the construction delay. This study is based on a list of reasons for construction delays from a literature review. The relationship of the work with the expert was obtained during a series of interviews. Subsequently, a questionnaire was developed. The questionnaire was distributed to construction specialists, and councils and contractors were represented. Sociological research, analysis and comparison of the most important

reasons for the delay in the study. Statistical analysis is performed to check whether the results of the survey lead to delays.

Amir Hossein Alavifar et. al. The delay negatively affects various aspects of the project at that time, including quality, price, and security. In a project for a long time with a delay and plan to lose their financial position, which is unable to cause until the end of the year if the administrator was in the private sector, or poor quality and security, in order to reduce financial losses if the administrator was in the public sector. Negative impact on project delay, which include legal issues between employer contractors and consultants, reduced productivity and income for large-scale projects in progress. In this article, an attempt was made to conduct a survey, three points of view of the state, property owners (10 companies), entrepreneurs (10 companies) and private consultants (15 companies), in order to find out the reason for the delay in construction projects and identify the reasons for the increase in project risks. given the probability and severity of these reasons, as well as the subsequent structural origin of the project, if due to the problem of overall strategic planning, organization, system, problems and / or lack of knowledge of project management, it may cause delays in the implementation of construction projects.

Saif Ullah et. al. Delays, road construction, most common in transit from engineer projects, Pakistan. Therefore, it is important to investigate and analyze the causes, road works, and delays. The most common way-construction projects in Pakistan were never implemented during, at the time the first performance, was at the time the goals were set. Road construction projects are often delayed, so at the stage of supply of materials and abuse, their management, in Pakistan. The aim of this study was to investigate the delay factor in the implementation of road construction projects in Pakistan. Project delays are a common problem internationally, as the construction industry operates at the current stage. Finding out the reasons that prompted them to do this has become an important contribution to improving the performance of the construction industry. In the course of the study, students studied a list of reasons for construction delays, which were collected in various literature, including different types of construction, different countries, different times and in different numbers of reasons for delays and kits. During these studies, data was collected using as queries that were distributed to various clients, consultants, and contractors. The data obtained were analyzed using the relative importance index and strategy rating. The reasons were classified in seven different stages of new road construction and a common cause. Financial constraints / problems are identified as the most important / biggest reason for the delay. Poor site management on the part of the

contractor, once again the reason for the delay is that specified by the customer. Stupidity/lack of funds during the fiscal year, a year, there is another reason for the delay, according to the developer. Difficulties in financing the project, the main reason for the delay is that the contractor is responsible. Out of the top twenty reasons were related to road construction. In line with the analysis of the case studies, the most important contributions to factors and groups of violations were discussed, and some future recommendations were proposed to control and minimize delays in road construction projects. This result can be useful for project managers to mitigate the impact of delays in road construction in Pakistan. This article is useful for both researchers and builders of new roads, on the other hand, it allows you to conduct an accurate and repeatable analysis of the development of a construction project in order to facilitate the optimal level of competition, timing, cost and quality of services for efficient and effective projects.

Mr. Shripad A et. al. It is known that most irrigation projects in India involve time and cost overruns, or a mixture of them. This circumstance probably affects the development of the country, as well as the ability to expose many institutions of structures in order to destroy them. The aim of this paper is to study an irrigation project in terms of the tasks, means and time of an irrigation project in the Amravati region. The study stated that "the acquisition of land, affected people, rehabilitation and social services, and increased corporate social responsibility" is the most critical factor that affects the delay of the project. Research also found that "Other reasons" were, given also that it is important" where changes to the structure, equipment, tools and plant (ETP), as well as any additional work", was one of the most important factors influencing demolition. Studies have shown that "the rate of fluctuations of the current project, which cause other reasons that" were project changes, purchase, land plot, delays in government approval, against farmers and its bahalġma terrain, the most important factor in creating cost overruns. It should also be clarified that delays in the delivery of materials and equipment lead to cost overruns. Research has clearly shown that the rate of inflation is an overspend. The study recommends that government, contractors and consultants maintain their responsibility to avoid any delay or task, means that can be achieved by properly managing the project and finding new ways to store material from the very beginning of the project.

Ibrahim Mahamid et. al. The construction industry is one of the sectors that are the most important components of the development of a particular economy. But many projects live with a significant delay, and thus are already at the initial time and cost estimates. Delayed construction is considered one of the most frequently encountered problems in the

construction sector, and this negatively affects a successful project in terms of time, cost, quality, and safety. This study was conducted to examine the effectiveness of road construction projects in the West Bank and the occupied Palestinian territories, with the aim of identifying the cause and complexity, at the level of contractors and consultants, through a questionnaire survey. This is the same scope of inquiry, consisting of 34 people, contractors and 30 consultants. Only there were 52 reasons identified during the study. The study concluded that serious delays caused the political situation, segmentation of the West coast market and limited freedom of movement between different areas, assigning the project the lowest prices, delays in payment to the owner's progress and equipment failure.

Lee J. Lesisko et. al. School renovation-construction projects that can have a profound impact on students, faculty, and administration. The literature indicates that constant communication is the key to a smooth process. This study revealed bureaucratic affairs and the school environment should be the leading factor of discomfort in the project. An analysis of these studies has shown that female head teachers experience more stress during a construction project, as well as building supervisors, regardless of gender, have something to control, rural schools, factories and experience more stress than their suburban counterparts. Of course, the more experience the operator has, at the same time it is easy for him to solve school issues and problems. The researchers also found that the increase in staffing, election values did not differ. Most entrepreneurs are forced to work with school staff to minimize disruption to daily school activities. But many schools fail in that we have received additional resources, depending on the management area, to facilitate a smooth learning process and project preparation.

Ghanim A. Bekr et. al. In Jordan, the construction industry is considered as one of the most important economic sectors. This area suffers from many disadvantages, including time, non-compliance. The purpose of this study is to identify the most important reasons for delays in large government projects, Jordan, and to study the impact of such delays on the results of such projects. This goal is achieved through extensive literature reviews, site visits, interviews, and questionnaires. It is this area of research that should have revealed the feel of participants giving input to this research subject. The questionnaire consists of three sections. One of them was in the nature of selecting those who put their labor into studying and studying their perceptions, it delayed that already existing industries. The second is 55, the reasons that are divided into four groups. The third part is devoted because of this delay, to the cause of large public sector projects. Responses were received from 146 engineers representing the parties involved in the project. Analysis of

requests, including the location and value of each delay element included in the study. The analysis showed the impact of the delay on the project results.

Subhav Singh et. al. The construction industry is one of the main drivers of economic growth and development in India. The two main problems that limit construction, construction, and industry in India are poverty, costs, and project delivery time. Therefore, the aim of this study is to fill in important knowledge gaps by identifying various signs of delay with the construction of a residential project being a starting point. The contact survey, which was given to contractors and consultants, was analyzed using the Relative Importance Index (RII). The results showed that the shortage of materials, facilities, unexpected land conditions, poor planning, supply process, problem of access to the site for completion; weather conditions; to suppress modern equipment, skilled workers and equipment failure are estimated by contractors and *məsləhətçilərdir* as the main reasons for project delays in India. Front line design players are encouraged to make their bets identified by major factors, size, in relation to the strike. By doing so, the reasons for project delays, in the construction sector in India, could be reduced or controlled, which would ultimately lead to project completion on time.

Mr. Omkar P. Shriramjwar et. al. The achievement of any enterprise project will depend on the speed of project execution within the budget. Implementation method, personnel management, equipment management, planning and costs are some of the factors that will affect the project, and these factors also have causes, tasks, funds and time in the world. Each construction company aims to generate money and profit at the end of each project. This will be achieved through completion within the project, projected goals for cost, time and quality. They are a constant source of discomfort for the project developer and have prepared a series of studies to identify the causes of these discrepancies around the world. The paper reviewed the literature in order to identify the most important factors that led to documents, cost overruns and construction projects, and methods for their detection.

Ms.Yogita Honrao et. al. Today, the construction of the motorway network is plagued by delays and challenges, vehicles causing problems, traffic and design changes, poor planning, litigation, destruction of vehicles, poor security and delay in transportation. Researchers in developed countries understand the severity of this shortcoming and suggest solutions for it to revisit the solution. Because they are inherently risky, and the increasing complexity of modern construction projects, delays and loss of funds have become common industrial facts. Researchers and practitioners are very much used to evaluate the project in case of delay and

responsibility is shared among the stakeholders. This study focuses on the causes of serious consequences of delayed infrastructure projects in India. Delays and cost recovery have become a hallmark of infrastructure projects in India, and research on delays and cost recovery in highway projects has been re-applied. All successful projects can be implemented by achieving its planned goals at the same time, budget and quality. One of the main problems that we face during the construction of general and road construction projects, including, is lagging behind the scheme, that is, with a delay at the time of delivery. Delays can be defined as certain delays in the project completion time, the main expected and unexpected reasons. Term completion is very important in the structure, because "Time is money". In some cases, contractor delays result in higher operating costs over a long construction time. And also, the material cost may increase and eventually increase the rate of inflation. Time is planned for the client, especially if he is holding an investor, the lost profit that is expected to be received after the investment begins.

Anil Upadhyay et. al. Delays are very common in the world's tallest design projects. There were some delays, maybe that place is in the initial construction phase, which clearly defines the starting period, as well as the main idea of the construction project to officially confirm the agreement between the owner and contractors, but there were some delays, maybe that place is in the construction period, the time period between the actual work, the beginning and end. Construction schedules are usually dynamic and uncertain. A series of controlled and uncontrolled problems can seriously stop a project or strategy and create a tendency to delay. All of these factors are related to the Contractor, Owner, Designer, Contractor, Materials, Equipment, Labor, Project, and External Environment. Contractor-related factors, delays are considered the most important factors. In this article, I briefly summarize the various factors of delay due to the fact that as contractors.

Suraj Bavdhankar The delay can be set as already the time or after the completion date specified in the contract, or after the date that the parties have agreed to direct the project. It slides along its planned schedule, and is considered to be the most common problem in developing countries. Delays in project implementation are considered to be the most common one of the problems causing various negative project and stakeholder engagement. Why it is important to identify the root causes of delays in order to minimize and avoid those that contain related costs.

Mohd Nasrun Mohd Nawi et. Al In general, the split within the construction industry that resulted from the two branches of traditional construction in the process of construction in the process of the most significant separation is the

separation of the design process, construction, design and structure itself. The split of the traditional exchange of experience in the field further complicates the situation, integration, building knowledge among entrepreneurs, because they are less likely to influence project decisions. When the design specialist does not take into account how the contractor will build the designed project, this will lead to problems with the schedule, including any disputes during the construction process. On the road against the team-integration is considered an important strategy to fix this problem. Accordingly, this article discusses the split problem in detail, including its definition and causes, as well as the results of the construction project. It is also a team integration strategy to reduce planning problems and helps avoid any delays and disputes during the construction process to avoid any losses and overall project performance..

M Z Ramli, Construction is an important industrial sector that contributes to economic growth in Malaysia. But it turned out that, 359 projects in Malaysia 79.5% and 66.7% of public and private sector projects end on the deadline specified in the contract. Therefore, the aim of this study is to study the element delays that cause a project delay in rural areas. On a 5-point Likert scale based on a questionnaire survey, the answer is 111 - I have experienced agriculture, construction, this is a project. The survey data were analyzed using the Relative Importance Index (per TERRITORY). The most important factors, it was found that these studies on the basis of their values on the TERRITORY there is a faulty design method of carrying out the contractor's weather conditions of free shipping offer place breakage premises equipment, as well as the low technical staff contractors.

Abhishek Shah, The government spends millions of dollars in new facilities to improve the country's infrastructure. Construction projects are complex, uncertain and presented for a long time, including many interesting aspects and the integration of various components (Civil, Mechanical and electrical) to work together as a single whole. The project requires highly skilled construction, detailed plans and specifications of high-risk construction services, efficient management, skill-complete control and close coordination. So assert, as is often the case in such cases. Today, construction projects are the subject of an increasing number of complaints more than in any other industry. They claim that they are in the process of construction, and the reason-de-lay in the implementation of the project. These statements are highly undesirable because they require a lot of time and resources, but also because they cause adversarial relationships between the parties involved. Therefore, it is in the common interest of all parties involved to avoid them, minimize them, or fix them as best as possible. Identify common requirements and reasons that make it necessary to

find ways to minimize and hopefully prevent the project in the future. These studies present the results of a pilot study, types and causes of construction claims in the construction industry. Recommendations will be provided to avoid / reduce project debt. It is expected that the results of this study will help construction companies to avoid the root cause of its need, and thus minimize stratification and destruction of facilities and construction projects.

III. CONCLUSIONS

Construction experience has reasons, tasks, time, ultimately, the reason for the delay of the field of activity is about 15%. The same concrete construction work is 10%, walls - 15% - up, and decorations-5%. In this case, the total cost of fossil activities is approximately 8%. Similarly, concrete works, 5%, walls from 5% and finishing is 5% Nirman group of engineering, Maruti mandir, Ratnagiri, the current design experience is to delay the time horizon by 15%, and in the economic perspective, by 5% due to the lack of effective and efficient engineering practices. To achieve efficiency and impact on the building experience across the entire life cycle of your project, you need to raise awareness of construction methods, conformance structures, methods and technologies, and promotion, equipment, design and construction. By adapting modern engineering construction and design practice methods, you can save time exceeding approximately 15%, costs dispel approximately 5% to 10%, costs.

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