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**PROJECT DELIVERY AND INTERNATIONAL PROJECT
MANAGEMENT**

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Introduction

Project delivery is the method of executing and planning for any project, in addition, project delivery is involved with increasing the project goals and plan, scope. This report sheds light on the context of developing a project to upgrade the slum. Mainly, this paper forecasts on showing the facing challenges during the project execution. In contrast, this study concentrates also on the section on utilizing the process related to PRINCE2 and mentions its major challenges on it. Therefore, this study goes to demonstrate a critical evaluation of delivering the project. Slum is a populated area covered by weak buildings and congested items. In other words, slums are located in urban areas and poverty performs here widely.

Facing challenges during developing a project business

Generally, slums are defined through some major aspects such as durable housing, inadequate resource of water and insecure residential situations. Additionally, slums have occurred for various reasons such as extreme urban migration and economic segmentation as well as depression. In other words, widespread unemployment, informal economy and poverty, poor planning, and social conflicts are also accounted under the reason for establishing a slum. Apart from that, poor government policies also have a significant role in occurrence a slum in society and while the government failed to meet the demands of affordable housing, the slum is occurred (Again and Serdaroğlu Sağ, 2020). On the other hand, the affordable land shortage is also a reasonable reason for raising a slum. In the present time, the land is tough to grab and this is the major factor in raising the slum in society. Another part of that, poor management is one of the vital aspects of reasoning the slum. Additionally, this report generally sheds light on presenting the process of slum upgrading also and slum upgrading refers to the developments in housing along with the initial structure of slum areas. In contrast, slum upgrading also contains improvements in social and economic protocols that can provide lots of developments.

Slum upgrading interventions normally involve some areas such as the development of reticulation of water. In the form of water reticulation, is the method of contributing water to the public by pipes networks. This is the protocol of serving water to the public from a resource such as a dam or a river. Additionally, this is one of the major aspects that support any society hugely and this water scarcity is generally recognized in slum environments. Thus, water reticulation is the major one that involves in the portion of upgrading the slum. In support of these, through some process, this water supply system will be developed and these are general usage of AI, ML and GIS for optimizing the entire reticulation process.

In other words, security regulation of tenure is another aspect that involves the upgrading process of developing the slum. In addition, this also involved developing the sustainability of slums. This presents manually future confidence and who are enlisted under the safe zone from eviction by long-term stability. In form of slum housing development, it has been seen that the global strategy of housing is one of the major components that embrace the housing policy along with practice. In order to upgrade the housing conditions in slums, the project handler needs to follow some appropriate rules such as exact planning is one of the best approaches that escalate the manufacturing techniques widely. In this case, twin track approach is the key aspect that enhances the slum housing conditions. Additionally, this approach refers to a process that is applied to developing the serviced affordability and supply land. In support of these, community rehabilitation or construction facilities are also involved here such as health posts and nurseries, and open spaces for the community (Killemsetty and Patel, 2022). In this case, lack of space is one of the significant aspects that problems are included inside slums. Therefore, the slum upgrading project gives extra concentration on making the bank place for the community. In order to develop the slum community spaces, the project planned essential protocols that support the slums to give space for the communities regarding enjoying any occasions or festivals.

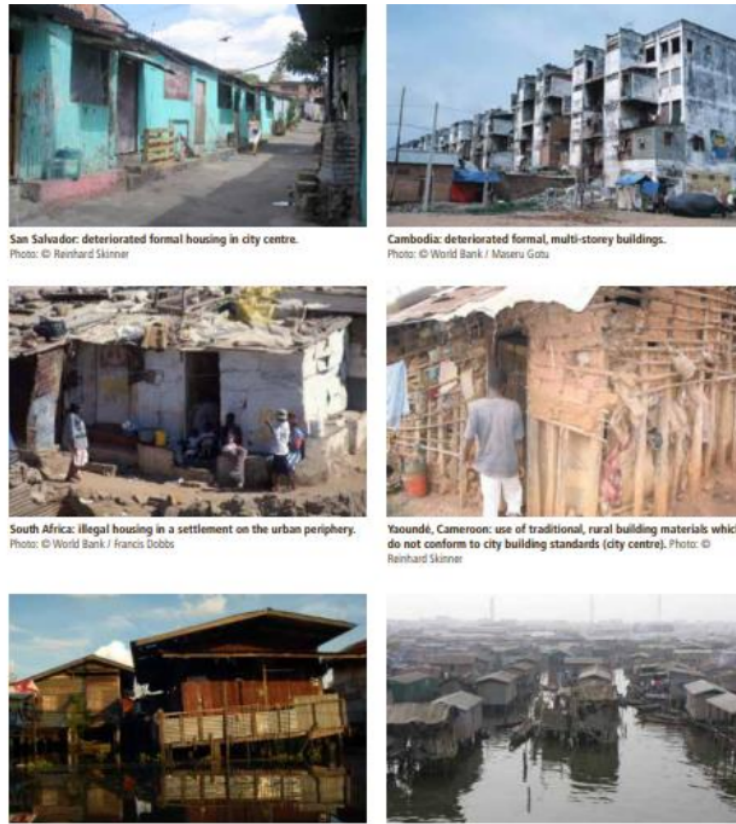


Figure 1: Different types of slum

(Source: Sunarti *et al.* 2022)

Apart from that, another aspect is removing the environmental hazards in slums which also play a major role in upgrading the project of slums. Additionally, environmental hazards in slums are mainly connected to high populations and water logging, so on. Due to having high-density of populations, slums have faced issues related to improper drainage systems as well as fire, toilets and so on. Therefore, these are the major issues in slums and the project has concentrated on mitigating these vital problems from the slums. In this case, the project also forecasted mitigating the issues related to education systems and people securities. In the slum, due to issues of poverty, people could not take exact education and this is the reason for increasing unemployment in slums. In upgrading the slum condition, the project has shed light on demonstrating the new tactics of education for the slum's people.

The project people give the appropriate training to eligible communities such as children and younger generations for learning the required lessons actively. In this case, *cognitive learning theory* is one of the essential theories that support the slum actively in developing

the education levels. Therefore, through this process, the slum can develop widely and this helps to reduce the issues related to unemployment. Besides that, violence is one of the major aspects that impact badly in slum environments. Through embracing the scope of grabbing financial support for the communities, the issues of violence can be solved effectively. On the other hand, by reducing the poverty in the slums, gender violence can be reduced actively and that is one of the best processes of upgrading slum communities' culture. Apart from that, the government also needs to focus on solving these major levels of issues from slums. The government needs to provide appropriate financial support by giving employment scopes to backdated people in slums (Sunarti *et al.* 2022). Therefore, it has been seen that slums have lots of issues and for mitigating those significant problems the project authority can meet some recognizable challenges and these are mentioned below deeply. Citywide slum up gradation project has faced some significant issues and these are involved with politics, autonomy, finance, and scale as well as. In the section on **political** factors, it has been seen that most of the time political leaders have promised lots of aspects related to developing the slum city. Yet, after electing the votes, they could not meet their telling promises. Thus, lack of good mentality leaders or authorities needs for developing the slums actively.

Additionally, the **financial factor** played a significant role in the huge amount of constraints in the section of upgrading slums. Most of cases, it has been observed that given financial resources has damaged only for generating the plan along with designs funding is not applied in the progression of the work. Therefore, in this case, it has been found that needs a good project execution person for developing the progress and begging the project (Sunarti *et al.* 2022). On the other hand, mainly funds are coming from the national sector and that money is not efficient for developing the slum. In this case, needs some external sources that can provide money besides national funds to improve the structures of slums. In the section on autonomy, in most of the cases, it has been seen that lots of countries' policies regarding national denote the opportunities for demonstrating local by-laws. In developing a section of a slum, it has been seen that several authorities are involved. Therefore, their decisions are not the same for all cases. Apart from that, it has been seen that various types of conflicts arose and the design work will be dropped widely due to inner conflicts between working authorities. Another part of that, it has been seen that scale is one of the essential approaches that mainly defined a process of upgrading through programmatic (Vane *et al.* 2022). In order to execute this process, one needs to establish and maintain the slums by making good plans and designs. Therefore, in this case, some cities are not grabbed this programmatic approach easily. These cities are enlisted under the underdeveloped slums list. Therefore, this paper

sheds light on showing all major limitations stages in below with determining issues from the slum project.

- **Mobilization of the community and initial evacuation**

This part is one of the major barriers in this project that faced the project huge amount of trouble. Additionally, this stage was sensitive and crucial made behind the reason of occurring this issue due to reason of relocation about local residents or living communities. In order to develop the slum progress, needs to transform the slum from the present place to another place. However, the communities have thought that this is a scam for taking their place from them. Therefore, this is one of the major issues that provide a huge amount of barriers during the time of executing the overall process.

- **Material shortages**

Material is another key aspect that serves a wide amount of issues in progression the project regarding slum up gradation. The construction was completed by utilizing a technique related to MIVAN that gave trouble in grabbing material of shuttering aluminum. Therefore, this costly material could not access for all time, therefore, this is the major issue that happened during the time of project execution of the slum. On the other hand, lots of times pipes have not been found for making the water supply process in the slum. In addition, lots of issues occurred such as a lack of spaces for digging and a lack of pipes (Rao *et al.*2022). Therefore, it has been seen that various issues have occurred in the time sphere of executing the overall process and that is the major issue of stopping the slum progression work. Besides it, cement and other materials are required most for developing the housing structures in slums (Chhetri, 2022). On the other hand, material costs also developed day by day and this increased rhythm is steadily the most and a result of it, slums are dependent fully on government compensation and that money is not sufficient for developing the slums actively.

- **Labor issues of payment**

In form of this section, the labor payment issue is another key barrier that is faced by this slum up gradation project. Along with that, while labors have not got exact payment for their work at that time laborers moved forward with doing strikes (Daneshyar and Keynoush, 2023). This is one of the significant aspects that provided a huge amount of constraints inside the slum developments. Another part of it, this study also sheds light on showing this scarcity actively and this problem naturally happened due to insufficient funding.

- **Heavy rainfall**

This problem is accounted for under the issues of natural barriers and this is another vital key aspect of throwing barriers. During the time of executing the project work, sometimes rain

fall issues occurred and that is one of the major issues that able to stop the project work widely (Rigon, 2022). On the other hand, this study considered this issue as a major issue and for raising this major accident the slum progression's material has wasted most. Workers have not worked due to occurring natural accidents in the progression of the slum projects. In support of these, it provided lots of issues in time management and labors could not do the best work for completing the entire project within the exact deadline.

- **Public strike**

Political and social factors impacted the entire slum progression project in direct along with indirect ways. In this case, this project has faced problems related to facing some constraints through the issues of public strikes. Generally, it happened due to their own thoughts, they thought through showing the slum development, authorities stole their lands.

- **Designs not collected on time**

This is another significant barrier that provides huge amounts of issues in the time sphere of embracing the project associated with slums. Additionally, design plays a significant role in running a project, and when some changes are required in the plan (Agayi and Serdaroğlu Sağ, 2020). At that time, the revised project has not come within the exact time sphere due to the low level of the communication process. Thus, it has been seen that delays in the delivery of the project maps, and the project work speed has dropped respectively. Additionally, due to having a low level of infrastructure quality and the project manager's faults, the project work also transferred into slow work.

- **Machine breakdown**

Machine breakdown is another key aspect that throws huge amounts of constraints in the development of slums. Apart from that, due to various reasons, the project has faced lots of limitations such as machine breakdown and decreased rhythms of the work effectively. Additionally, the work process is delayed for not having efficient machines.

According to the overall context, it has been seen that this project has received huge amounts of barriers and these are mainly insisted to stop the entire project work of slum development. In another word, this study also assessed significant problems such as water scarcity and lack of education scopes (Junias, 2022). They are not increasing their future scopes due to not having sufficient education stages and this is required to change fastly. In order to demonstrate an education sector in the slum needs large land. However, land is the short element in any slum and the project planner could not discover any land for reducing the scarcity of education. In contrast, the project persons are not applying cognitive learning theory for improving the slum's people's knowledge. In addition, communities have not

collected any good suggestions from them about thinking about their future opportunities. As a result, they are not convinced by showing any documents. Thus, they have moved to the path of strikes for saving their land accordingly.

Principle challenges of using PRINCE2 during the time of implementation on Slum Up gradation

PRINCE2 is one of the essential tools and it is implemented as a method of project execution. These tools support the project for tracking the project progress actively and handling the project efficiently. PRINCE2 tools involved many tools such as Jira, smart Sheets, and Trello and so on. In the above project, this tool is applied for getting better results in progressing slum project development. In this section, this tool has some challenges also such as excessive documentation, useless training and move management. In support of these, it has been seen that for running this tool, one needs to learn the process of running this technology (Akter, 2022). Additionally, without learning this technology, no one can use it actively. Therefore, sometimes this slum upgrading project's members are not conscious of these tools. Therefore, due to not having effective skills in handling it, the project members have faced problems regarding checking the project's progression. On the other hand, this tool has one and only the same way of doing the project. That is one of the significant issues enlisted under the list of challenges during the project completion (Esteki *et al.* 2020). Apart from that, when one innovative tactic was published at that time, this PRINCE 2 process was not able to adopt that. Thus, it has been seen that during the time of completing the overall project, this tool could not change its protocol as per switching the method of making the water reticulation process. Additionally, excessive documentation also performed as a major challenge in this section. This method is not famous for doing the paperwork planning for executing the project. However, in this case, this project totally depended on making effective protocols of execution for the entire project related to slum development (Marnada *et al.* 2022). Therefore, for documentation work, this tool is not appropriate and this is an important limitation of this tool. Change management is another major aspect that provides huge barriers in the time of implementing this tool in this slum improvement project. Most of the cases, project managers have no knowledge of the utilization of this tool. Therefore, it is the major problem and for solving these significant issues the project team has implemented a new manager who knows this project effectively. Therefore, this is one of the major aspects that throw up lots of issues in completing the project. Due to these circumstances, the laborers have received huge amounts of issues with changing the manager. Therefore, this

section clearly mentioned all significant constraints of these major tools for utilizing this tool in upgrading the project regarding slums.

Conclusion

According to the overall Context, it can be concluded that this paper sheds light on presenting the challenges during the time of slum up gradation. Additionally, it has been seen that some major constraints are enlisted respectively. These are mainly involved with water scarcity and poor management of housing conditions. In addition, these project members also implemented the cognitive learning theory that also helped the project in serving the knowledge between the slum communities. Apart from that, this paper also used PRINCE2 for managing better the project work. Besides it, the project has also collected some challenges and these challenges played a role as key constraints. Prince2 technology is a tool that needs to learn the using process actively and that is one of the major drawbacks that provide huge amount problems inside the project development. In contrast, this PRINCE2 also has a problem related to adopting external tactics and that is another barrier to using this item in this slum project. In support of these major aspects, this study also mentioned issues regarding natural problems and technical issues of materials. These two are also enlisted under the list of facing challenges in the development of slums.

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