

Considering the Process of Construction in Oil Projects (EPC) to Improve the Performance of Project Management

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Abstract

Designing and building large projects for the oil and gas industry requires extensive cooperation and coordination between the engineering, procurement, and implementation phases. In this research, to achieve a level of performance improvement in the project, we need a process called buildability, so to achieve this, we need to implement this process in large projects such as EPC in the oil and gas industry. In this study, we describe the principles of buildability as well as the conditions that limit the ability to build in the eyes of experts.

Keywords: Constructability • Project management • Time • Quality • Cost

Abbreviations: EPC: Engineering; Procurement; Construction contract

Description

Improving the performance of the project in the field of EPC, evaluation, and review of feasibility in oil and gas energy oil projects have been done. Because oil and gas projects have a very important place in the development of the country and most of the financial resources for their implementation are provided from oil revenues. Despite the importance of these projects, many of them do not reach the point of success. Implemented to improve the interaction between planning, design, engineering, and construction. This leads to significant time and cost savings and reduced risks [1,2]. Therefore, managers must be aware of the importance of buildability and identify its needs. Knowing the importance of these needs will help identify and consider appropriate and effective solutions to improve them [3,4].

Conclusion

The need to identify prerequisites for construction on oil projects is crucial. On the other hand, iterative processes, increasing productivity and reducing risk are things that can increase the performance of projects. Increasing the coordination of design engineers, managers of engineering departments, procurement and executive units to do planning work in projects, as well as holding training sessions for students and employers on executive managers of early construction can be important. The initial presence of all project stakeholders from the beginning of the project to the end of

the project can be very important. The importance of knowledge management and improvement in organizations, promoting teamwork, accuracy, and optimal review when presenting cost rates and bids for the project, more employer supervision over the preparation and procurement of goods, and improving the quality of inspections of the goods provided. It can reduce costs and increase quality and reduce project completion time.

Competing Interest

The article was not published in another journal and was not submitted to another journal at the same time.

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