



جامعة الجميع الذكية
EVERYONE'S SMART UNIVERSITY

Everyone's Smart University

Project (Spring 2021)

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Section
Course

Master
(PMG506)

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Code
Thursday

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Advanced project Management

Instructions:

- اخر موعد للتسليم هو يوم الخميس 2021-05-~~820~~ في تمام الساعة ٩ مساءً.
- الإجابة متاحة باللغة الإنجليزية أو اللغة العربية مع مراعاة أن تكون المصطلحات العلمية باللغة الإنجليزية.
- يتم تسليم المشروع في صيغة ملف pdf . مع الالتزام نموذج الجامعة ولن تقبل أي مستندات أخرى.
- يجب مراعاة أقسام البحث الرئيسية (مقدمة Introduction، دراسات علمية سابقة Literature Review، طريقة البحث Methodology، النتائج والمناقشة Results and Discussion ، وأخيراً المراجع References . وان كان هناك ملحقات Appendices يتم إضافتها)
- يجب الالتزام بـ Theme موحد كما يلي:
- حجم الخط 12.
- نوع الخط Arial.
- لون الخط أسود.
- المسافة بين الأسطر 1.5 line spacing

• عدد صفحات البحث (لا يقل عن ثلاث صفحات ولا يزيد عن ست صفحات).

Instructor's Name: ~~Eng. Amaal Aburumman~~ **Eng. Dr. Akram M. S. Ali**

Project:

You are required to document your role in administering a project. The project may be set in a business, social, sporting, or family environment but must be of a significant size and scale. If you do not have an actual project to write about you may complete the project hypothetically.

This report will be between three to six pages in length. This is a significant research project.

Your report must address ~~each~~ **ONE** of the following issues:

1. Identify and describe the purpose, scope, and objectives of the project. **Display this information using an appropriate tool.**
2. Describe how the team is given an outline of the project.
3. Describe the strategies that are going to be set up to maintain communication with the team members.
4. Describe the tools that are going to be used to monitor the goals, time frames or milestones.
5. Identify project milestones and activities. **Display this information using an appropriate tool.**
6. Create a budget and link the costs to the key milestones for a project.
7. Describe how you are going to divide tasks and resources amongst a project team. **Display this information using an appropriate tool.**
8. Briefly describe how the progress will be monitored.
9. How are current project records maintained? Who has responsibility for this? provide some recommendations on how this process could be improved.
10. Describe the current procedure for finalizing projects. Create your own procedure and identify how you will evaluate the success of the project.
11. Legislation that may affect the project including health and safety, and anti-discrimination legislation.

Best of luck...

المشروع:

مطلوب منك توثيق دورك في إدارة مشروع. قد يتم تعيين المشروع في بيئة تجارية أو اجتماعية أو رياضية أو عائلية ولكن يجب أن يكون بحجم مناسب. إذا لم يكن لديك مشروع فعلي لتكتب عنه ، فيمكنك إكمال المشروع افتراضياً. ستكون هذا التقرير من ثلاث إلى ست صفحات.

يجب أن يعالج تقريرك ~~كل~~ **احد** القضايا التالية:

1. تحديد ووصف الغرض والنطاق والأهداف من المشروع. اعرض هذه المعلومات باستخدام أداة مناسبة.
2. صف كيف يتم إعطاء الفريق مخططاً تفصيلياً للمشروع.
3. وصف الاستراتيجيات التي سيتم وضعها للحفاظ على التواصل مع أعضاء الفريق.
4. صف الأدوات التي سيتم استخدامها لرصد الأهداف أو الأطر الزمنية أو المعالم.
5. تحديد معالم المشروع والأنشطة. اعرض هذه المعلومات باستخدام أداة مناسبة.
6. إنشاء موازنة وربط التكاليف بالمعالم الرئيسية للمشروع.
7. صف كيف ستقوم بتقسيم المهام والموارد بين فريق المشروع. اعرض هذه المعلومات باستخدام أداة مناسبة.
8. صف بإيجاز كيف سيتم رصد التقدم.
9. كيف يتم الاحتفاظ بسجلات المشروع الحالية؟ من المسؤول عن هذا؟ تقديم بعض التوصيات حول كيفية تحسين هذه العملية.
10. وصف الإجراء الحالي لإنهاء المشاريع. قم بإنشاء الإجراء الخاص بك وحدد كيفية تقييم نجاح المشروع.
11. التشريعات التي قد تؤثر على المشروع بما في ذلك الصحة والسلامة ، وتشريعات مكافحة التمييز.

مع تمنياتي بالتوفيق..

The Budget of Relocate Jazan/Abha Refined Products Pipeline Project

1. Introduction

This project will be done by Saudi Aramco to efficiently meet the Kingdom's refined product demand in Jazan & Abha Regions. This will be accomplished through the addition of truck loading facilities at Jazan Refinery and three Kerosene tanks, constructing a new pipeline from Jazan refinery to Abha Bulk Plant and construct three tanks in Abha Bulk Plant.

What Is Budgeting and why we need it in projects?

A plan for how you will spend money on each work package in a project, its estimates how much and when needed.

The benefit of this process is to provide guidance and direction on how the project cost will be managed throughout the project.

2.Literature Review

Some of Project Management Budgeting Methods:

2.1 Bottom-Up

Using a bottom-up budgeting approach, the project team brainstorms and discusses how to generate the project budget. The quality of the results depends on the quality of inputs.

Getting expert advice during this process helps improve the accuracy of the budget.

2.2 Top-down

Using a top-down budgeting tool, you look at the total project budget and estimate the cost for each process. By examining each activity needed to complete the project, you can then assess which activities to decrease if needed to meet the budget. This approach tends to discourage participatory-style management.

2.3 Parametric Estimation

A parametric budgeting uses historical data and other variable to calculate an estimate of project parameters, such as scope, cost and duration. This technique typically produces high levels of accuracy

2.4 Analogous Estimation

An analogous budget tool uses the actual costs of a previous project to estimate the cost of a new project. As long as the two projects are similar in nature, this technique works well. This approach can be used by less experienced project managers. However, using this technique to estimate the budget requirements for innovative and complex projects may be less accurate and unreliable.

3.Methology In Saudi Aramco Projects

In Saudi Aramco Capital projects, Budget Estimate is prepared after major engineering decisions have been made. It is intended to define the cost of the baseline scope of work for Jazan/Abha Refined Product Pipeline project that is included in the capital plane. The engineering work at this stage is about 5% complete. Budget estimate is based on the approved Design Basis Scoping Paper (DBSP) prepared by the Facilities Planning Department (FPD).

After a through feasibility analysis and alternatives have been considered and developed, the proponent and FPD shall continue to expand the scope of work to develop the Design Basis Scoping Paper (DBSP) based on more information and available resources.

When the project is adequately defined, it is submitted as proposed Budget Item (BI) under the Capital Budget and Programs and presented to the Board of Directors for approval. The appropriate Saudi Aramco Project Management Team (SAPMT) is then assigned the responsibility for the execution of the project. The assigned SAPMT submits a request for preliminary Engineering funds required for the development of the project proposal.

Budget estimates are based on the approved DBSP and updated whenever the scope of work or Expenditure Request Approval (ERA)/onstream dates change.

4. Results and Discussion

To prepare the Budget Estimate the documents in the below checklist should be provided to Project Management Office Department (PMOD)

Following are minimum documents required to accompany the Budget Estimate Request to PMOD:

Description	
☐	Approved DBSP
☐	Copy of DBSP if routing for approval
☐	On-plot and Off-plot Facilities Description & Layout
☐	Process Flow Diagrams and/or Process Engineering Study
☐	Budget Brief
☐	Process Equipment List, Sizes, Capacities & Specifications
☐	Major Mechanical/Civil/Utilities/Offsites & Electrical Scope Description
☐	Electrical Single Line Diagrams, SCECO, Main Substation, Unit Substation Requirements, UPS, High & Medium Voltage Requirements
☐	Offsites Tankage, Waste Treatment & Flare Requirements
☐	Utilities Requirements: Air, Steam, Fuel Gas & Cooling Water (H & M Balances)
☐	Scope Description for Demolition
☐	Summary of Site Visit Report
☐	Geotechnical Report
☐	Communications Requirements including SCADA
☐	Field Instrumentation including Analyzers, Transmitters, ESD Valves, etc.

Description	
☐	DCS & ESD Scope including I/O Count
☐	Fire Protection & Safety Requirements
☐	Security Requirements: CCTV, IDAS, etc.
☐	Environmental Assessment (Contamination)
☐	Contracting Strategy (from PMT)
☐	Number of Studies for Project Proposal with Potential Impact
☐	Pipe Segment Lengths and Thickness
☐	Scraper Launcher/Receiver Stations and associated equipments & specifications
☐	Pipe Routing Soil Description (sand, rock, rocky soil, etc.) and Terrain (flat, rolling hills, mountains, etc.). Geotechnical report or confirmation should be attached.
☐	Requirements for LUP, ROW, Major and Minor Road Crossings
☐	Pump Station and associated facilities requirements
☐	Main Isolation Valve Stations and associated equipment
☐	Requirements for MOVs and GOVs
☐	ERA & Onstream Dates

In this project we use parametric estimation method which have the below advantages and disadvantages:

Advantages:

- It can be very accurate when it comes to estimate cost & time.
- Easier to get stakeholders support and approval.
- It can be reused for similar projects and the quality of data becomes better with every additional project.

Disadvantages:

- Parametric estimating can be time consuming and costly.
- Requires some efforts and resources.
- The quality of the historic data may also be an area of concern in some cases.

5. References

- 5.1 Project Management Institute: PMBOK Guide and Standards.
- 5.2 Saudi Aramco Estimation Guideline.