

CONSTRUCTION OF UNDERPASS AT THE GULBERG GREEN AREA, LAHORE

FOR M.A. ALEEM KHAN AND SONS (PVT)

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BAHRIA UNIVERSITY LAHORE CAMPUS

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SUBMISSION DATE:

June- 11- 2016

MAAKSONS

M.A.ALEEM KHAN & SONS (PVT) LTD.

ENGINEERS & CONTRACTORS

(DOCUMENT GENERATED FROM SITE)

CERTIFICATE

This witness statement is issued to the applicant for the fulfillment of his/her MS (Project Management) program requirements being carried out at Bahria University Lahore Campus (BULC).

It is witnessed that Mr./Ms. Umair Hussain Enrolment: 03-298152-018 Class: **MSPM-II** Semester: **Spring 2016** has contacted / visited / frequently utilized our premises / participated in our real-time projects for implementing project management skills using EPM as a leading software tool.

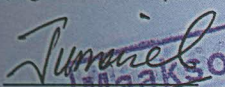
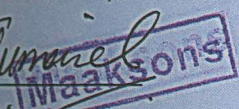
He / She, in case of participation in organization's project, have contributed fully / partially in the following project(s) and within the highlighted fields (planning, scheduling, earned value analysis, performance monitoring, claim debugging):

1. **Gulberg Green, Underpass/Interchange at Islamabad Highway, Islamabad**

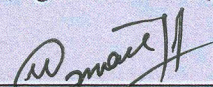
He / She, in case of visiting/ frequently utilized premises, has been found skilful in applying EPM in the following highlighted fields (planning, scheduling, earned value analysis, performance monitoring, report generation).

Additionally, it is noteworthy to mention that Mr./Ms. Umair Hussain demonstrated good ethical practices, enthusiastic approach to work, task convergence capabilities, professionalism while his/her stay / connection with this organization.

Certified By Company Official:
(Signature, Stamp & Date)



Mr. /Ms.

Verified By Trainer:
(Signature & Date)


Mr. /Ms.

Abstract

The project management is the basic structure of any organization. Its work in any organization has brought up. Organizations have understood the importance of project management for the excellence of the projects. The objectives of project management including management, standardization and coordination are the base of project management office.

According to the research it is estimated that many projects are failed and face threatening challenges due to the non-implication of PMO. Such failures may be due to lack of authorities commitment their limited planning, uncontrollable deliveries and expectation of unrealistic budgets. In this projects all this concerns have been discussed by applying project management office.

In this repost for the company work project model office has been advised to implicate it according to the company's need. Project management institution has recommended a basic definition of project management office, which can be defined as;

“An organizational body or entity assigned various responsibilities related to the centralized and coordinated management of projects under its domain”.

Moreover, in the company project the project timeline has been created. In this project dynamics of project management office has been discussed as an elective course in degree program MS (Project Management)

Acknowledgement

The success and final outcome of this project report required a lot of guidance. Our sincere thanks to the respected teacher for the guidance and encouragement in finishing this project report in time

Above all, to Allah Almighty, the author of knowledge and wisdom, for his countless love

This project report has indeed helped us to explore more knowledgeable avenues related to the topic and I am sure it will help us in our future.

I thank you all.

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CHAPTER 1

INTRODUCTION

M.A. Aleem Khan and Sons (Pvt) Ltd is working for the three and a half year of independence and almost over the past six decades. In the world of non-existing constructions MAAKSONS has built its name and emerged as one of the leading construction companies. MAAKSONS never accept defeat and work hard for the company progress.

The power of the MAAKSONS is their dedication to their client and to all those who have been in the way of their success and progressing the national and international markets. Their growing name in the world of construction and their validities and responsibilities towards their work has always been its own achievement. The company has obtained its resourcefulness excellence and vulnerability due to its hard work and their responsive behavior to the work. The company has always done its best to achieve their maximum goals.

The innovative ideas in the business have provided by the youngsters working in the company has led the company level up to high. The higher authorities have noticed the changing in the market and acknowledged the multiple efforts for the development of the company. These efforts have been done to touch the level of satisfaction for the client and international market level. The development procedures have been preceded by the division of architecture in the house. This depends to meet the level of international market.

The Chief Executive Mr. Mohammad Wasim Khan has offered many strategic offices locations in Pakistan and United Arab Emirates. They offer many type of projects which may include Roads, Canals, Hospitality, Industrial, Transportation, Underpass, Educational, Mass Transportation, Sports, Bridges, Parking Plazas, Health care, Residential, Power generation Projects and O&M. The different operations held by this company and also managed by the Maak Gas (PVT) LTD, MAAKCRETE, MAAKAGRO DAIRIES (PVT) LTD., Assets Management Division, Maak Farms and highly reputed Cerebri Technical Services LLC (UAE). The dedication of MAAKSONS is towards the professionalism and quality has won the satisfaction of their clients and higher authorities by Prime Minister of Pakistan, Ministry of Pakistan Housing Authority and Capital Development Authority, Embassy of United States of America and host of other clients.

By the Pakistan Engineering Council (PEC) which are responsible for all the engineering work happening in Pakistan and also responsible for the performance by the companies has licensed in category C-A (No Limit).

Vision:

The vision is to develop the most reliable company in the world of construction companies. The aim is to settle our position in the engineering market and utilizing the high resources of engineering in the electronic industry, to show our remarkable value and strength in the construction world.

Mission:

The mission is to provide the fully satisfaction to the client in the satisfying home atmosphere. The exemplary services are provided to maximize the actual values of estate asset and to give opportunities for professional and personal improvements. The major aim is to provide community of own choice. This is the major aim we attain from the clients and their partners and employees to achieve the goal of objectives. To enhance the goals and their results with the benefits the professional and personal encouragements are crucial. The progress can only be obtained when employees and their work is appreciated on regular basis to improve the development criteria. To obtain the investment opportunity in the real estate the quality and professionalism should be improved to obtain maximum progress. The business progress is only possible if we precede with the trust traditions. The fact of progress is hidden in the quality and trust strategies.

Strategy

MAAKSONS (PVT) LTD, are remarkable and reputable names in the industry of construction. They have diversified real estate developments and property services with the lifestyle management. It has change the beauty of cities in Pakistan, as it is working on many projects and bringing the good change in the country. The company's strategy is to work with the modernized world, and to give its maximum strength to the client's projects. It is providing the maximum versatility to the landscape. The main perspective of the company is to not only work with the concrete or bricks but to build such structures that goes beyond to the marvelous creations, and to provide such place to people where they could cherish their lives and live their moments comfortably.

Services offered

MAAKSONS are diligent to the high quality services in the related fields;

1. Building construction
2. Roads
3. Drainage / Sewerage
4. Canals
5. Hospitals
6. Industries,
7. Transportation
8. Underpass
9. Educational buildings
10. Mass Transportation
11. Bridges
12. Parking Plazas,
13. Health care
14. Residential areas
15. Power generation Projects

Values

MAAKSONS do not compromise on the following values; Punctuality, Commitment with job, trust, Honesty, Courage, Respect. They are working on three strict policies that are following.

1. Quality policy
2. Safety policy
3. Environmental policy

Organizational Structure and Culture

MAAKSONS is under a simple rule as a company that involves not less than 150 permanent employees. It includes four major departments.

1. Marketing
2. Design
3. Construction
4. Quality

Excellence through Integrated Management Systems

The product quality is the main focus under the considerations of MAAKSONS. MAAKSONS productions have always been a remarkable place in the markets they never compromise on the quality and client's satisfaction. In the management system they are ISO certified with quality management and environment and occupational health services.

IMS certificates MAAKSONS head office and manufacturing sites can be accessed at the company website (<http://www.maaksons.com/asif.amin/profile.pdf>). A list of MAAKSONS IMS certifications along with locations is given below:

Certification Name	Description	MAAKSONS	MAAKSONS - GM	MAAKSONS - HO
ISO 9001:2008	Quality Management System (QMS)	☐	☐	☐
ISO 14001:2004	Environmental Management System (EMS)	☐	☐	☐
OHSAS 18001:2007	Occupational Health & Safety Assessment Series (OH&S Management System)	☐	☐	☐

CHAPTER 2

INTRODUCTION TO PROJECT MANAGEMENT OFFICE

A Project Management Office (PMO) is a collection or a business working inside the office or link between the employees that characterizes and keeps up measures for task administration inside the association. For one or more ventures of administration has an immediate charge for administration task which can be obligate by the PMO. The regulated task by the PMO cannot be linked other than the over seen together the project by the administration.

PMO framework

In the Project Management Office there are four major components as a setup of in the association. These four components are taking after:

1. Process
2. Governance
3. Organization
4. Resources

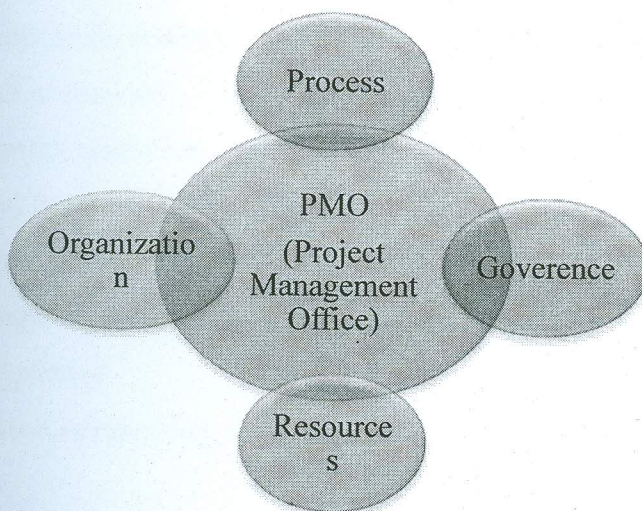


Figure 0-1 PMO frameworks

The major objective of the administration office of PMO is to plan spending structure on the construction. The objective gives a clear image of every spending on the project and relates the association with the viability and productivity of the project, which also be understandable up to employee level. The structure formation is totally dependent on these four components. These are directly related to the development procedures and task accomplishment. By setting up the PMO on such major points the goals can be obtained.

1.1.1 Process

While developing the project management processes there is a need to adapt best practices, which include the common used organization such as PMI-PMBOK, and PRINCE-2 etc. Process is the series of working that includes initiation that leads to planning, executing, monitoring and controlling and then closing of the project.

1.1.2 Governance:

At the operational level the operations ought to be undertaken for powerful PMO. As well as at portfolio and administration level the operation should be undertaken.

- a) Milestone status monitoring
- (b) Risks & benefits management
- (c) Budgets & project accounting
- (d) Expenses & materials reviews
- (e) Issues & actions tracking
- (f) Resource conflict resolution
- (g) Skills demand forecasting
- (h) Standards & processes
- (i) Analysis & improvement
- (j) Audits & compliance
- (k) Standard & custom reporting

1.1.3 Organization

The benefit of the organization must come from the PMO.

1. Project accountability is related to governance with monitoring and controlling.
2. Operational responsibilities are knowledge based and management reporting.

1.1.4 Resources

The quality soul must be a crucial part among the PMO, as in individual's variable it is assumed as main unit of PMO in moral and broad experiences. In PMO groups these major points are synchronized for the advance abilities. Any individual should have ethical values, quality conscience with the extensive experience. There are some critical components are too, which are to be faced like knowledge based for the demanding openness. In the task information there should be some standard layouts which should be reachable. All the required data should be in the access of ventures.

Types of PMO

There are three types of PMO:

1. Weather Station (Governance)
2. Control Tower (Centre of Excellence)
3. Resource Pool (Project Support)

1.1.5 Weather Station

The Weather Station venture administration office is related to the investigation of the surrounding that what is happening. The administration only gives a look to the data given by the designer. At few times the officers get disturbed by the spending on the sites. Various ventures design various designs confuse the administration and a lot of work going ahead on daily basis is also very confusing. Climate station is suggested to stop this hustle.

1.1.6 Control Tower

In the Control Tower PMO, the strategy is given to the venture supervisor headings. In the control tower the strategies are checked by the supervisors and alarm is given to the PM about the circumstances that are facing the issues. Planning and deliverables are also checked by this strategy.

1.1.7 Resource Pool

The resource pool PMO helps in the performance and acclimate. The total negligence of cost is the key capacity for all the ventures to work together. Asset pool is set up for the ventures chief. The resource pool guarantees from the administration ventures about their legal work.

Role of Project Managers vs. PMO

Project Managers	PMO
It only considers the specified Project objectives.	PMO manages all business related opportunities that lead to obtain the goals
The assigned project resources are assist by the project manager in order to meet project objectives	PMO is responsible for all projects under the company for optimize use of shared organizational resources.

Role of PMO

In the organization there are many roles of the PMO. That includes;

- 1) Supportive
- 2) Controlling
- 3) Directive

1.1.8 Supportive

Supportive PMO help the venture in the entire project and assist them to work in a preferable suitable environment by giving them the best layouts and objectives.

1.1.9 Controlling

This PMO is a consultative part that assist the venture all preparing access to data and undertaking the things in control. PMO gave the high control.

1.1.10 Directive

PMO is responsible for the programs given to the ventures. The administration assets are assigned ventures to run the projects. These PMOs are directly dealing with the activities.

PMO responsibilities

The PMO is responsible for all the strategies and planning running in the project. All the necessities coming under project requirement are also under the consideration of. This work done of PMO is under three domains:

- 1) Establishing Project Methodologies
- 2) Project Tracking
- 3) Project Support

1.1.11 Establishing Project Methodologies

In this establishment of project is done. The planning of project with all the aspects is taken under consideration to allot the ventures. The administration keeps record of every activity.

1.1.12 Project Tracking

PMO should track the ventures for assurance of the recurrence undertaking to the projects. And they should also be provided with all the necessary planning to work on.

1.1.13 Project Support

For successful work and good result the PMO is highly responsible to support the ventures with all aspects.

Goals of PMO

There are many goals of PMO. They are following:

- 1) Standards maintenance to improve performances
- 2) Lower project costs for client's satisfaction.
- 3) Specialized project management skills and expertise.
- 4) Management expertise for multi projects.
- 5) For diverse business unit setup assign standardize project management.

Challenges of a PMO

PMO confront few major challenges. Those are following;

1. Maintain the continuous PM framework beyond the projects.
2. Connection between the PMO and organization's strategy.

3. Metric-based approach establishment.
4. Acceptance negligence for the aspects of work by the
5. No communication between staff and the seniors.

Elements of an Effective PMO

Elements of an effective PMO are considered as;

1. Right people
2. Right data
3. Right tools

The right information will always lead the PMO towards success goals.

CHAPTER 3

PMO IMPLEMENTATION IN MAAKSONS LAHORE OFFICE

PMO implementation is required in MAAKSONS office. Projects are under the risk of failure. The application of PMO is crucial for the setup.

Organizational structure:

MAAKSONS Lahore office has a strong matrix organizational structure. This structure is under the chief executive, functional manager, project manager and the staff.

Why there is a Need of PMO?

To achieve the goals there is always need a planned setup with minimum risk. PMO is a planned setup for the organization which leads towards the success.

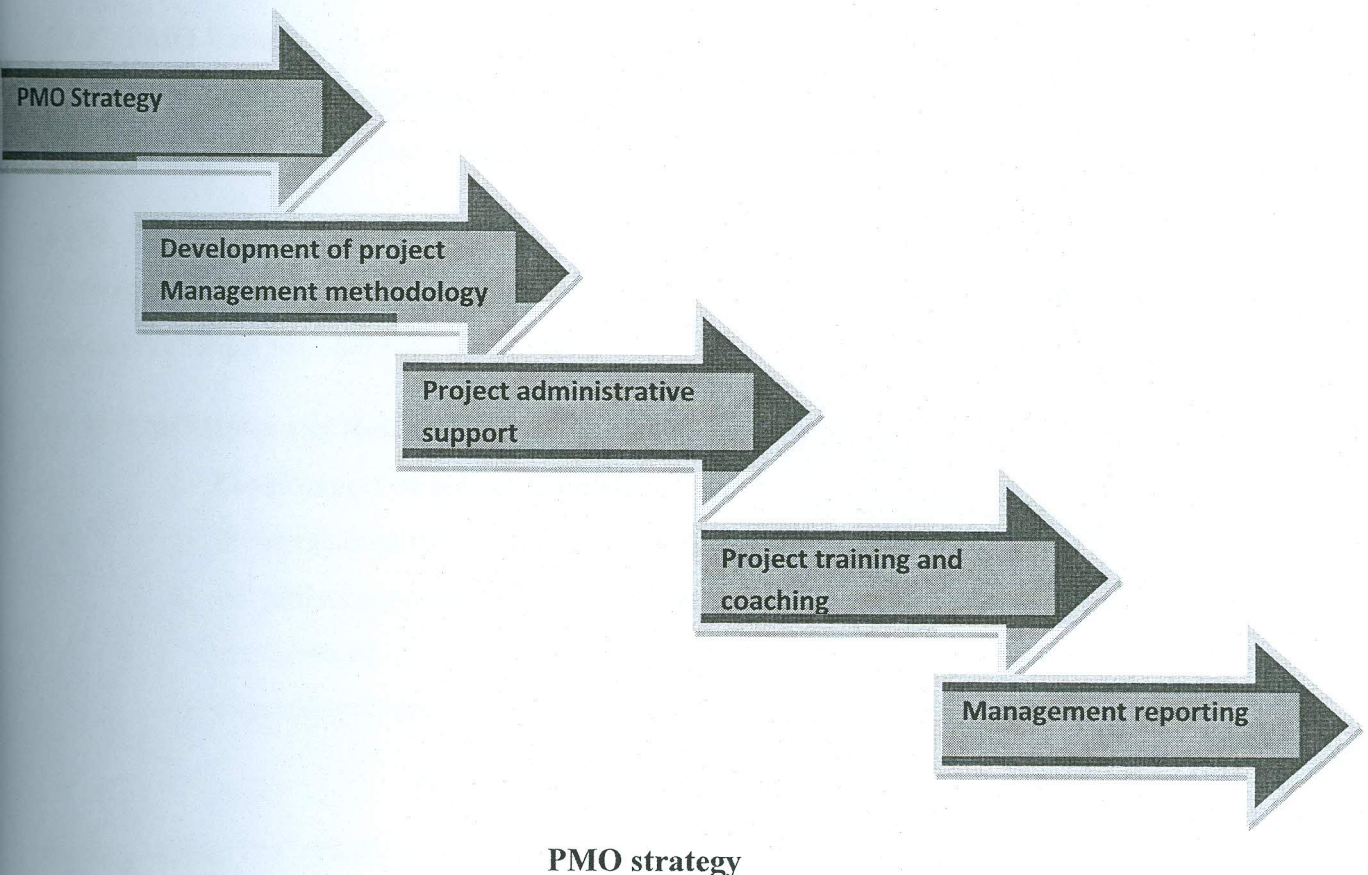
Problems without a PMO:

- 1) Project reports are offered by the senior management and the project managers differs.
- 2) Representation of the projects is done by the matrix and project managers unable to share its opinion.
- 3) The documentation of the running projects is poor.
- 4) Project managers are not regularly tracking the activities. Many projects do not have complete documentation.
- 5) Projects accomplishment is done before time and more than budget.
- 6) Active project management is lacking.
- 7) No business value of the project management.
- 8) Executives are applying random tools
- 9) For project status client have to go for many steps of meetings.
- 10) Overloading of resources is happened because of many projects running on the same time.

CHAPTER 4

ESTABLISHING PMO FOR MAAKSONS LAHORE OFFICE

PMO set up placement was build up at MAAKSONS office. Their benefits can be accessed by associating with them. At MAAKSONS office PMO was established in 5 stages.



1.1.14 PMO Scope:

- 1) PMO will responsible for all running projects and directed by the CIO.
- 2) The PMO will set the standards and make a report for senior management that will show project efforts at MAAKSONS.
- 3) The project measures set up by PMO will use as a template in all projects.
- 4) The PMO will train all the project requirements at all location.
- 5) The availability of all tools and their usage will be delivered by PMO.

1.1.15 PMO Mission

For the development approaches placement of high effective values at MAAKSONS.

- 1) For continuous project success managing the supportive management structure.

1.1.16 PMO Vision

The PMO is collection of experts who manage their strategies and tools in a way to perform effective and deliver a high quality results.

1.1.17 PMO Values:

1. Accurate information delivering so that project can be supported with actual facts..
2. Working is efficient with high quality service and less risks.

1.1.18 Stakeholders:

A stakeholder is also very important for the PMO. There is an effective communication with stakeholder so that their support can be achieved.

1.1.19 PMO Roles and Responsibilities

- 1) Development of project template.
- 2) Project management training and development coordination.
- 3) All project management processes including its development, implementation, and management.
- 4) Supplying all developed templates to the respective departments.

Project management methodology

For the proposed PMO PMBOK is utilized for ventures. Following strategies are made as standards of the methodology of project management.

- 1) Development of standard issue management processes.
- 2) Development of management reporting system.
- 3) Development of required project management processes.
- 4) Development of standard project management guidelines.
- 5) Development of standard change management processes.
- 6) Development of required project templates, registers and checklists.

Project administrative support

All the planning activities are done by the PMO directing council. A proper work place is provided to the PMO for working by the administration. Beside work place PMO working tools are set up. Office premises are setup for the PMO activities.

Following project management tools will be used by PMO

- 1) Microsoft Project 2013.
- 2) Microsoft Office 2013.
- 3) Microsoft Enterprise Project Management (EPM) Server 2010.
- 4) For tracking business projects online system will be used by all departments.
- 5) To manage all electronic data a documents archiving system will used by the PMO.

Project training and coaching

At regular intervals undertaking directors will be led by PMO. On regular basis ventures will be given training classes. All design set will be made by PMO and checked by CIO. For further important activity it will send it to the HR. all the task requirement will be filled up by the PMO. All the prepared groups by PMO will be responsible for their duties. CIO is authority to bring any change in the PMO structure.

Management reporting

Reporting of all the work will be done on regular basis. Data will be collected from the ventures and will be keeping as documentation. Ventures accessibility will be to the senior management for delivering their data to the office dash boards.

For the senior administration presentations will be held for delivering the project reports and discussing the crucial parts relating to projects. All the reports will be arranged in electronically way in the task library.

Continuous improvement

PMO will always be focusing on more development and improvements regarding the project. For better results PMO will search all the meander for development. Yearly PMO will be reviewed for high quality results. After approval all the data will be present online so that all related departments and can review the reports. Availability of reports will make sure for many organizational areas.

CHAPTER 5

CHALLENGES FACED IN ESTABLISHMENT OF PMO

Challenges faced in Organization of PMO:

5.1: During the formation Of PMO, It faced many challenges which are:

- Senior managing officers did not understand the task. It is difficult for them to comprehend the whole scheme and purpose for which this company has been built.
- Apprehensions of experienced and senior managers regarding the expenditures of construction and future outcomes of this project.
- Senior bench showed opposition in accepting the main frontline project control.
- Assessment of the senior officials that this project may hurdle in the achievement of project's original objectives.
- They did not comprehend the original benefits and value this project can give to the management filed.
- They field to analysis the project's worth and the entire required department do not show the conformity to this project.

We anticipate the following issues confronted by PMO in its maintenance

1. Assessment of the project performance.
2. Incessant and uninterrupted enhancement in the project
3. Excellent management by PMO.
4. For the enforcement of this project compliance of the all departments is required.

5.2: Solution of these challenges:

Above mentioned problems faced by the PMO in its initial period were tackled by the following methods

1: Reorganizing the whole course:

- Harmonized the proposal management program.

- Coverage of the management work is clearly defined

2: Through better exchange of ideas and communication with other stakeholders by including following shareholders:

- Scheme development team
- Business and all other related departments.
- Supporting and operating team management was also essential for the solution of problems faced by formation of PMO.
- Opposing behavior of the senior managing officials were according to the new proposal and procedures defined and explained by PMO.
- Organizational configuration was reestablished.
- Guidelines, rules and procedures of PMO were defined according to the segmented or phase manner and their execution was prioritized on time based policy.

3: Assurance from the senior officials

- Firstly that they will implement unvarying processes.
- To acknowledge the performance of this proposal.

CHAPTER 6:

PMO VALUE ADDITION FOR MAAKSONS COMPANY

1. One of the significant benefits of the PMO is that it help in equal distribution of resources to the suitable project at the proper time. It means all things are done on proper time; tasks are addressed at the right time with proper spending.
2. Trustworthy responsible management transportation method applied on the organization
3. Tasks of experienced business enterprises directed to the big organizational project.
4. Different responsible groups and project managers are now accountable for the project completion by utilization of knowable work implementation, evaluation and measurement.
5. Tasks and responsibilities that are regularly the duty of some other public meetings can easily executed by PMO.
6. PMO also involved momentary / advantages and cost related inspection to list down what responsibilities should be performed.
7. Project management and administration office (PMO), assure that project's responsibilities would not fail.
8. In the organization task is perceived as a single standpoint.
9. Reporting and administration process is viewed regularly by pattern examination.
10. Many difficult responsibilities still persisted, so the PMO will communicate the issue before hand and highlighted the problems and threat to higher , experienced administration,
11. It is the guarantee of PMO that all comprehensive tasks should have proper guidelines and methods.
12. Heart stream lessons are the guarantee of PMO, and may keep up and produce administration related lessons as well.

CHAPTER 7

BUSINESS DRIVERS

The essential variables that can cause prominent change, decide and enhance the business are known as Business drivers. These drivers are any resource, progression and any circumstances that are essential's for the improvement, and enhancement of the business. Implementation of the manure business is influenced by these business drivers and for the mysterious nature of these drivers it is important to know these drivers which are,

1. Quality products
2. Powerful brand name
3. Efficiency Improvement
4. Economical cost
5. Skilled manpower
6. Shareholder engagement
7. Customer satisfaction
8. Strong product demand in the market.
9. Compliance to government policies
10. Operational efficiency.

CHAPTER 8

SELECTED PROJECT

MAAKSONS own projects known as selected projects. This organization was completed by Aleem khan and sons.

8.1 Project Title

Gulberg Green Underpass, Lahore.

8.2 Relevancy with Company's Business Drivers

The chosen project has its relatedness with following business drivers of organization.

8.3 Customer / consumer satisfaction

As the past projects of Gulberg Green Underpass was additionally built by MASKSONS and their developers were accomplished by the administration of MAAKSONS so they headed their second project to them.

8.3.1 Compliance to government Policies

.One of the most important factor is that Maaksons show compliance to the government policies made for the construction companies. This made it more effective and efficient in its work. Without any hurdle they completed their work without any interference from the government officials

8.3.2 Cost Economical

Why they chose MAAKSONS Construction Company is the reason that they reduced the cost of construction with best quality. Thus quality item and work at such low value and time make it remarkable cost efficient for Maaksons. This is also one of the motivational factor in selection of this company.

8.3.3 Stakeholders’ engagement

Past experience of the MAAKSONS showed that occasional partner’s appointment is a prominent among the most striking and distinguishing factors of MAAKSONS Achievement which is supplementary to their extraordinary solid business drivers.

8.4 Critical Success Factors

Following are the critical success factors of the selected project;

- 1. Effective and efficient communication
- 2. Senior officials support
- 3. Project team work with collaboration for the development and implementation of project.
- 4. Mutual coordination of company and dealers
- 5. Final product should meet the requirements of the company and project.
- 6. Organizational value should not be harmed during the project completion.
- 7. Employee’s awareness regarding the project purposes and policies is also very important.

8.5 External dependency

- 1. Some of the equipment were acquired from the external salespersons.
- 2. Approval from NTDC.
- 3. Subcontractor for the ETC work is required.
- 4. Approval from LESCO.

8.6 Stakeholder Analysis

Stake holders	Power	Interest	Priority
Branch Controller	High	High	Manage closely
GM	High	High	Manage closely
MANGMENT	High	High	Manage closely

Marketing management	High	High	Manage closely
Executive Head	High	High	Manage closely
Vendors	Low	High	Keep informed
Sub contraction	Low	High	Keep informed
Resident to Lahore	High	low	Keep satisfied

8.7 Project Documents

Following Documents should be prepared for the manifestation of this Project,

1. Charter of the project
2. Resource sheet
3. Project scope statement
4. View from the Microsoft project
5. Network diagram.
6. Reports from the Microsoft project.

CHAPTER 9

PROJECT CHARTER (GULBERG GARDEN UNDERPASS)

9.1 Version history

Version No	Completed By	Date Revision	Approval Authority	Date approved	Reason
1.0	UMAAIR HUSSAIN HAIDER ALI		PMO		Charter Documents

9.2 Introduction

As per PMBOK, the project charter is the document issued by the project initiator or sponsor that formally authorizes the existence of a project and provides the project manager with the authority to apply organizational resources to project activities. The project charter documents the necessary information required by decision maker(s) to approve the project for funding. It is created during the initiating phase of the project.

9.3 Project purpose

To Build an underpass for providing the public with the facility of free flow of traffic saving time and reducing maximum number of accidents due to over traffic.

9.4 High level requirements

1. The project will be finished in time meeting set budget and with required deliverables.
2. Performance of the Project will be measured in terms of planned cost and time.

9.5 Success criteria

- 1. Timely completion of project.
- 2. Completion of the project within approved budget.
- 3. Meeting the required quality standards.
- 4. Completing the project with target of zero accidents and injuries

9.6 Estimated duration

The estimated duration for the project is 12 months which will also include the approval.

9.7 High level risks

Risk	Mitigation Strategy
On time material procurement and goods and services	Procurement department will be established & held responsible for it
Quality of material, construction and finishing	Quality department will be responsible for it
Checking water leveling underground	Special considerations shall be given to design
Health, safety and Environment Issues	HSE department shall be fully responsible for it
Soil investigation	Soil testing from approved labs /third party

9.8 List the major milestones and deliverables of the project

Milestones
Planning
Approval
Architectural Tasks

Human Resource Arrangements

Training & Development

Financial Alignment

Suppliers Selection

Logistic Selection

Materials & Equipment Handling

Drilling & Digging Operations

Sewerage Operations

Steel Structuring

Civil Structuring

Mid Project Assessment

Plumbing and Electrical Works

Finalizing the Underpass Design

9.9Stake Holders

Stakeholder	Power	Interest	Priority
Client	High	High	Manage Closely
Designer	High	High	Manage Closely
Consultant	High	High	Manage Closely
GM (Civil)	High	High	Manage Closely
GM (Procurements)	High	High	Manage Closely
PM Team	High	High	Manage Closely
Sub-contractor	Low	High	Keep informed
Approved Vendors	Low	High	Keep informed
Citizens	High	Low	Keep satisfied

9.10 Summary budget (Project Budget)

PKR 359940680/- this is the estimated budget for the project

9.11 Project charter approval

The undersigned acknowledge that they have reviewed the project charter and authorize and fund the project. Changes to this project charter will be coordinated with and approved by the undersigned or their designated representatives.

Role	Client Name (e.g. Government of Pakistan)
Name	Name of the in charge
Designation	His designation
Date	

CHAPTER 10

PROJECT SCOPE STATEMENT

10.1 Version history

Version No	Completed By	Date Revision	Approval Authority	Date approved	Reason
1.0	UMAAIR HUSSAIN HAIDER ALI		PMO		Charter Documents

10.2Introduction

As per PMI PMBOK, The project scope statement is the description of the project scope, major deliverables, assumptions, and constraints. The project scope statement documents the entire scope, including project and product scope. It describes, in detail, the project’s deliverables and the work required to create those deliverables.

10.3Project scope description

Construct the underpass at the Gulberg green area, Lahore

10.4Acceptance criteria

1. Timely completion of project.
2. Completion of the project within approved budget.
3. Meeting the required quality standards.
4. Completing the project with target of zero accidents and injuries

10.5 Project deliverables

Project Site Office
Excavation completion
RCC work completion
Concrete work completion
Gray work structure Completion
Electrical work completion
Plumbing work completion
Commissioning of the project
Finishing work completion
Handing over

10.6 Constraints

There are few constraints that must be considered. These constraints apply to several area which include schedule, cost, scope, resource etc.

Sr No	Area	Constraint
1	Schedule	Major materials to be procured from external vendor
2	Cost	Only approved changes in scope statement will allow utilization of all kind of reserves or management reserves the right to take decision
3	Resource	Activities shall be executed with the selected personnel only
4	Finishing Work	Finishing work is to be done the by the subcontractor

10.7 Assumptions

1. The approval of drawings from the design company shall be the responsibility of the Contractor.
2. Civil design, approvals and execution shall be carried out by the Owner.
3. The Contractor shall provide relevant information to ensure that the civil works are according to the project requirements.
4. All civil work drawings shall be forwarded to Contractor for approval prior to execution.
5. Contractor shall submit four sets of technical data and drawings for approval to Owner.
6. The project team will have ample support from the top management.
7. Neither party shall consider to be in default or in breach of his obligation under the contract
8. The contractor shall be entitled to get adequate extension of time and cost relief for delays due to uncontrollable/natural or genuine issues and shall be entitled to terminate the contract if such aggregate delays continue for more than six months.

CHAPTER 11

MICROSOFT PROJECT SHEETS

The project plan for the selected project has been prepared in Microsoft Project. This section contains views and reports generated from Microsoft Project for project.

Following sections contain the following:

1. Resource Sheet
2. Work Breakdown Structure
3. Project Schedule
4. Network Diagram
5. Cost Report
6. Work in Process Report
7. Project Dashboard

	Resource Name	Type	Material	Initials	Group	Max.	Std. Rate	Ovt.	Cost/Use	Accrue	Base
1	Project Manager	Work		P	Manager	100%	1,000.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
2	Project Planner	Work		P	Manager	100%	\$900.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
3	Proposal Drafter	Work		P	Labor	100%	\$400.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
4	Architecture	Work		A	Labor	100%	\$600.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
5	Civil Engineers	Work		C	Manager	100%	1,000.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
6	Site Engineers	Work		S	Manager	100%	1,000.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
7	Contractors	Work		C	Labor	50%	\$500.00/hr	\$0.00/hr	\$0.00	End	Standard
8	Supervisors	Work		S	Labor	100%	\$150.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
9	Working Labor	Work		W	Labor	100%	\$100.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
10	Masons	Work		M	Labor	100%	\$150.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
11	Drilling Equipment	Cost		D	Equipmer					Prorated	
12	Draining Equipment	Cost		D	Equipmer					Prorated	
13	Steel Engineers	Work		S	Manager	100%	1,000.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
14	Cement	Material		C	Equipmer		200,000.00		\$0.00	Prorated	
15	Bricks	Material		B	Equipmer		100,000.00		\$0.00	Prorated	
16	Steel Frames	Cost		S	Equipmer					Prorated	
17	Sand	Material		S	Equipmer		\$50,000.00		\$0.00	Prorated	
18	Concrete	Material		C	Equipmer		100,000.00		\$0.00	Prorated	
19	Iron Rods	Material		I	Equipmer		100,000.00		\$0.00	Prorated	
20	Steel Pillars	Material		S	Equipmer		100,000.00		\$0.00	Prorated	
21	Water	Material		W	Equipmer		500,000.00		\$0.00	Prorated	
22	Pesticide Powder	Cost		P	Equipmer					Prorated	
23	Project Quality Manager	Work		P	Manager	100%	1,000.00/hr	\$0.00/hr	\$0.00	Prorated	Standard
24	Electricity	Material		E	Equipmer		100,000.00		\$0.00	Prorated	
25	Electrical Engineers	Work	E	Manager	100%	1,000.00/hr	\$0.00/hr	\$0.00	Prorated	Standard	
26	Plumbing Appliances	Cost	P	Equipmer					Prorated		
27	Plumbing Material	Material	P	Equipmer		\$60,000.00		\$0.00	Prorated		
28	Nuts	Material	N	Equipmer		\$10,000.00		\$0.00	Prorated		
29	Bolts	Material	B	Equipmer		\$10,000.00		\$0.00	Prorated		
30	Sanitary Fitting Materials	Material	S	Equipmer		\$50,000.00		\$0.00	Prorated		
31	Sanitary Machines	Cost	S	Equipmer					Prorated		
32	Management team 1	Work	M		100%	\$500.00/hr	\$0.00/hr	\$0.00	Prorated	Standard	
33	Management team 2	Work	M		100%	\$500.00/hr	\$0.00/hr	\$0.00	Prorated	Standard	
34	Masons 1	Work	M		100%	500.00/hr	\$0.00/hr	\$0.00	Prorated	Standard	
35	Masons 2	Work	M		100%	\$300.00/hr	\$0.00/hr	\$0.00	Prorated	Standard	
36	budgeting team	Work	b		100%	\$500.00/hr	500.00/hr	\$0.00	Prorated	Standard	
37	budget	Cost	b						Prorated		

	Task Mode	WBS	Task Name	Prede	Duration	Start	Finish	Resource Names	Miles	Critic
1		1	Project (Construction of Under Pass)		680 days	Fri 6/10/16	Tue 11/20/18		No	Yes
2		1.1	Planning		40 days	Fri 6/10/16	Tue 7/26/16	Project Manager ,Ma	Yes	Yes
3	✓	1.1.1	Project Work Breakdown Structure		5 days	Fri 6/10/16	Wed 6/15/16	Architecture	No	No
4	✓	1.1.2	Planning Draft	3	3 days	Thu 6/30/16	Sat 7/2/16	Project Planner	No	No
5	✓	1.1.3	Scheduling Draft	3	3 days	Tue 6/28/16	Thu 6/30/16	Proposal Drafter	No	No
6	✓	1.1.4	Initial Cost Structure	4,5	9 days	Mon 7/4/16	Wed 7/13/16	Project Planner	No	No
7	✓	1.1.5	Initial Resource Allocation	6	3 days	Thu 7/14/16	Sat 7/16/16	Project Quality Manager	No	No
8	✓	1.1.6	Proposal	7	8 days	Mon 7/18/16	Tue 7/26/16	Architecture ,Manage	No	No
9	✓	1.2	Approval		25 days	Tue 8/2/16	Tue 8/30/16		Yes	No
10	✓	1.2.1	In House Approval	8	5 days	Tue 8/2/16	Sat 8/6/16	Project Planner	No	No
11	✓	1.2.2	Client's Approval	10	5 days	Sat 8/13/16	Thu 8/18/16	Project Manager , Management team 2	No	No
12	✓	1.2.3	Drafting Agreements	11	6 days	Fri 8/19/16	Thu 8/25/16	Project Quality Manager	No	No
13	✓	1.2.4	Disbursing Contract Papers	12	4 days	Fri 8/26/16	Tue 8/30/16	Proposal Drafter	No	No
14	✓	1.3	Architectural Tasks		67 days	Mon 9/5/16	Mon 11/21/16		Yes	No
15	✓	1.3.1	Architect Map	13	5 days	Mon 9/5/16	Fri 9/9/16	Architecture ,Manage	No	No
16	✓	1.3.2	Detail Filings	15	8 days	Fri 9/16/16	Sat 9/24/16	Management team 1	No	No

	Task Mode	WBS	Task Name	Prede	Duration	Start	Finish	Resource Names	Miles	Critic
17	✓	1.3.3	Detail Approval	15,16	10 days	Tue 10/4/16	Fri 10/14/16	Project Manager	No	No
18	✓	1.3.4	Site Visits	17	6 days	Thu 10/27/16	Wed 11/2/16	Site Engineers	No	No
19	✓	1.3.5	Feasibility Checking	18	10 days	Thu 11/10/16	Mon 11/21/16	Project Quality Manager	No	No
20	✓	1.4	Human Resource Arrangements		174 days	Tue 8/2/16	Mon 2/20/17		Yes	No
21	✓	1.4.1	Contractors Selection	19	10 days	Sat 1/7/17	Wed 1/18/17	Project Manager	No	No
22	✓	1.4.2	Supervisor Recruitment	21	8 days	Sat 2/11/17	Mon 2/20/17	Management team 1	No	No
23	✓	1.4.3	Labor Recruitment	21	8 days	Sat 2/11/17	Mon 2/20/17	Project Manager	No	No
24	✓	1.4.4	Mason Accrual	21	7 days	Sat 2/11/17	Sat 2/18/17	Management team 2	No	No
25	✓	1.4.5	Pay Roll Development	8	6 days	Tue 8/2/16	Mon 8/8/16	Project Quality Manager	No	No
26	✓	1.4.6	Payment Procedure Finalization	8	4 days	Tue 8/2/16	Fri 8/5/16	Management team 2	No	No
27	✓	1.5	Training & Development		185 days	Tue 8/16/16	Sat 3/18/17		Yes	No
28	✓	1.5.1	Labor Relation Meetings	22,23,24	5 days	Wed 3/1/17	Mon 3/6/17	Project Planner	No	No
29	✓	1.5.2	Project Goals Communication	25,26	8 days	Tue 8/16/16	Wed 8/24/16	Supervisors	No	No
30	✓	1.5.3	Cross-Departmental Team Interaction	28,29	6 days	Mon 3/13/17	Sat 3/18/17	Project Manager	No	No
31		1.6	Financial Alignment		203 days	Thu 7/14/16	Tue 3/7/17		Yes	No

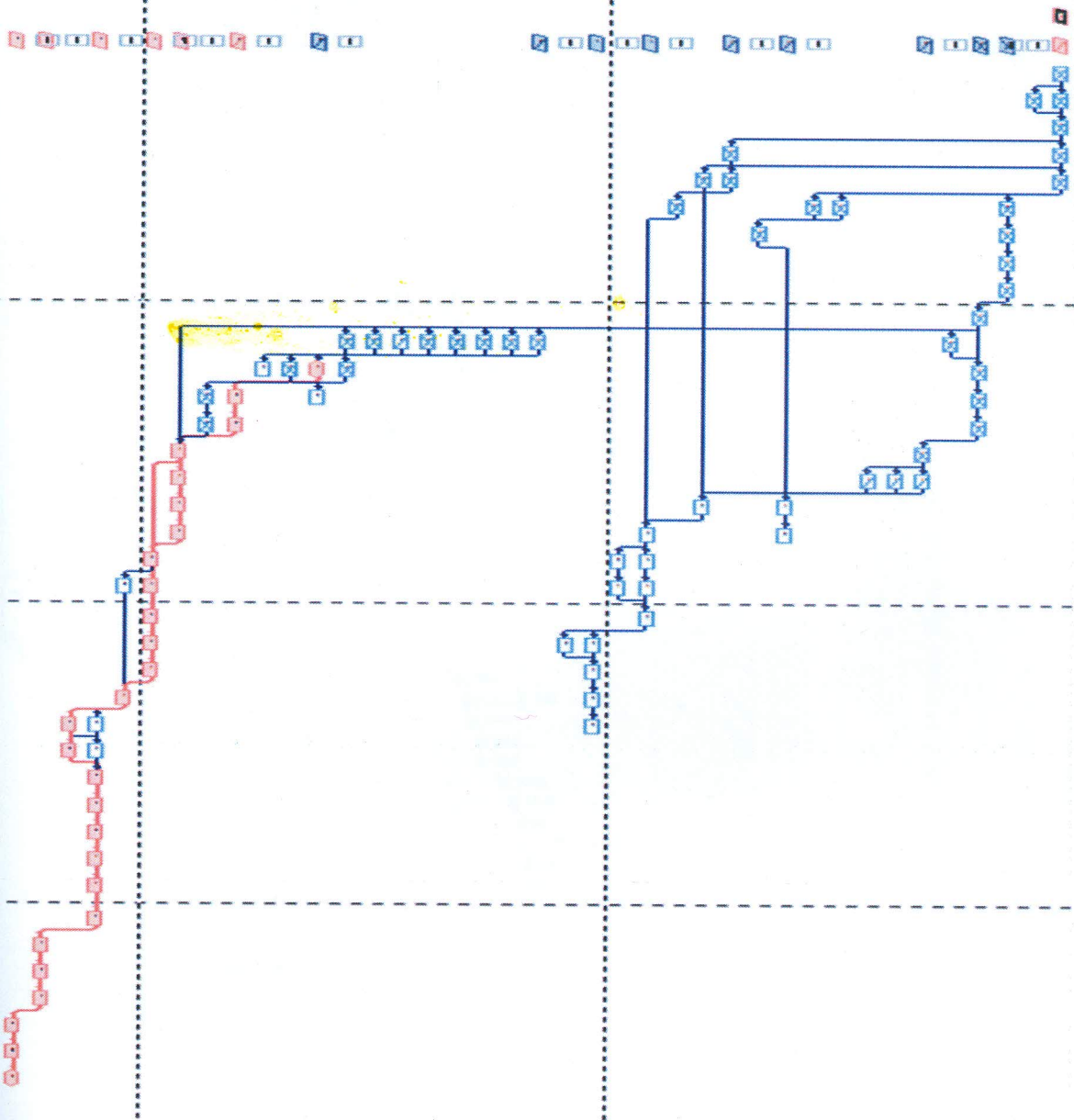
	Task Mode	WBS	Task Name	Predecessors	Duration	Start	Finish	Resource Names	Miles	Critical
32		1.6.1	Financial Budgeting	6	6 days	Thu 7/14/16	Wed 7/20/16	budget [\$500,000, 000.00]	No	No
33	✓	1.6.2	Cash Flow Matters	32	6 days	Thu 8/18/16	Wed 8/24/16	Management team 1	No	No
34	✓	1.6.3	Periodic Payments Schedule	7	8 days	Mon 7/18/16	Tue 7/26/16	budgeting team	No	No
35	✓	1.6.4	Payments Disbursement Patterns	34	3 days	Fri 7/29/16	Mon 8/1/16	budgeting team	No	No
36	✓	1.6.5	Record Keeping for Underpass Development	23,33,34	6 days	Wed 3/1/17	Tue 3/7/17	Management team 1	No	No
37		1.7	Suppliers Selection		25 days	Wed 3/8/17	Thu 4/6/17		Yes	No
38	✓	1.7.1	Assessing Indigenous Materials	35,36	5 days	Wed 3/8/17	Mon 3/13/17	Management team 1	No	No
39	✓	1.7.2	Enlisting Construction Material	38	5 days	Tue 3/14/17	Sat 3/18/17	Management team 2	No	No
40	✓	1.7.3	Enlisting Suppliers for the Material	38	4 days	Tue 3/14/17	Fri 3/17/17	Contractors [50%]	No	No
41	✓	1.7.4	Assessing Suppliers on Certain Criteria	39	6 days	Sat 3/25/17	Fri 3/31/17	Project Planner	No	No
42	✓	1.7.5	Negotiating with Suppliers	40	3 days	Fri 3/31/17	Tue 4/4/17	Management team 1	No	No
43		1.7.6	Finalizing Contracts with Suppliers	41,42	2 days	Wed 4/5/17	Thu 4/6/17	Project Manager	No	No
44		1.8	Logistic Selection		25 days	Fri 4/7/17	Thu 5/11/17		Yes	No
45		1.8.1	Indigenous Carriers Availability	43	5 days	Fri 4/7/17	Thu 4/13/17	Project Planner	No	No
46		1.8.2	Renting Trailers from Logistic Services	43	3 days	Fri 4/7/17	Tue 4/11/17	Draining Equipment, Drilling Equipment	No	No
47		1.8.3	Contract with Logistic Firm	45,46	5 days	Fri 4/14/17	Thu 4/20/17	Contractors [50%]	No	No
48		1.8.4	Negotiation on Routes and Cost	47	8 days	Fri 4/21/17	Tue 5/2/17	budgeting team	No	No
49		1.8.5	Finalizing Carriers Deal	48	7 days	Wed 5/3/17	Thu 5/11/17	Project Manager	No	No
50		1.9	Materials & Equipment Handling		75 days	Sat 9/10/16	Tue 12/6/16		Yes	No
51		1.9.1	Drilling Machines	15	11 days	Fri 9/16/16	Wed 9/28/16	Drilling Equipment [\$50]	No	No
52	✓	1.9.2	Digging Machines	15	10 days	Fri 9/16/16	Tue 9/27/16	Draining Equipment	No	No
53	✓	1.9.3	Sanitary Machines	15	12 days	Fri 9/16/16	Thu 9/29/16	Sanitary Machines	No	No
54	✓	1.9.4	Electrical Equipment	15	40 days	Fri 9/16/16	Mon 10/3/16	Electricity Materials [2]	No	No
55	✓	1.9.5	Structuring Equipment	15	13 days	Fri 9/16/16	Fri 9/30/16	Steel Frames	No	No
56	✓	1.9.6	Cranes	15	52.67 days	Fri 9/16/16	Tue 9/27/16	Masons	No	No
57	✓	1.9.7	Lifters	15	15 days	Fri 9/16/16	Mon 10/3/16	Bolts [1], Sanitary Fitting	No	No
58		1.9.8	Plumbing Machines	15	15 days	Sat 9/10/16	Tue 9/27/16	Plumbing Appliances	No	No
59	✓	1.9.9	Logistics	58	10 days	Fri 11/25/16	Tue 12/6/16	Working Labor	No	No
60		1.10	Drilling & Digging Operation		33 days	Fri 12/30/16	Mon 2/6/17		Yes	No

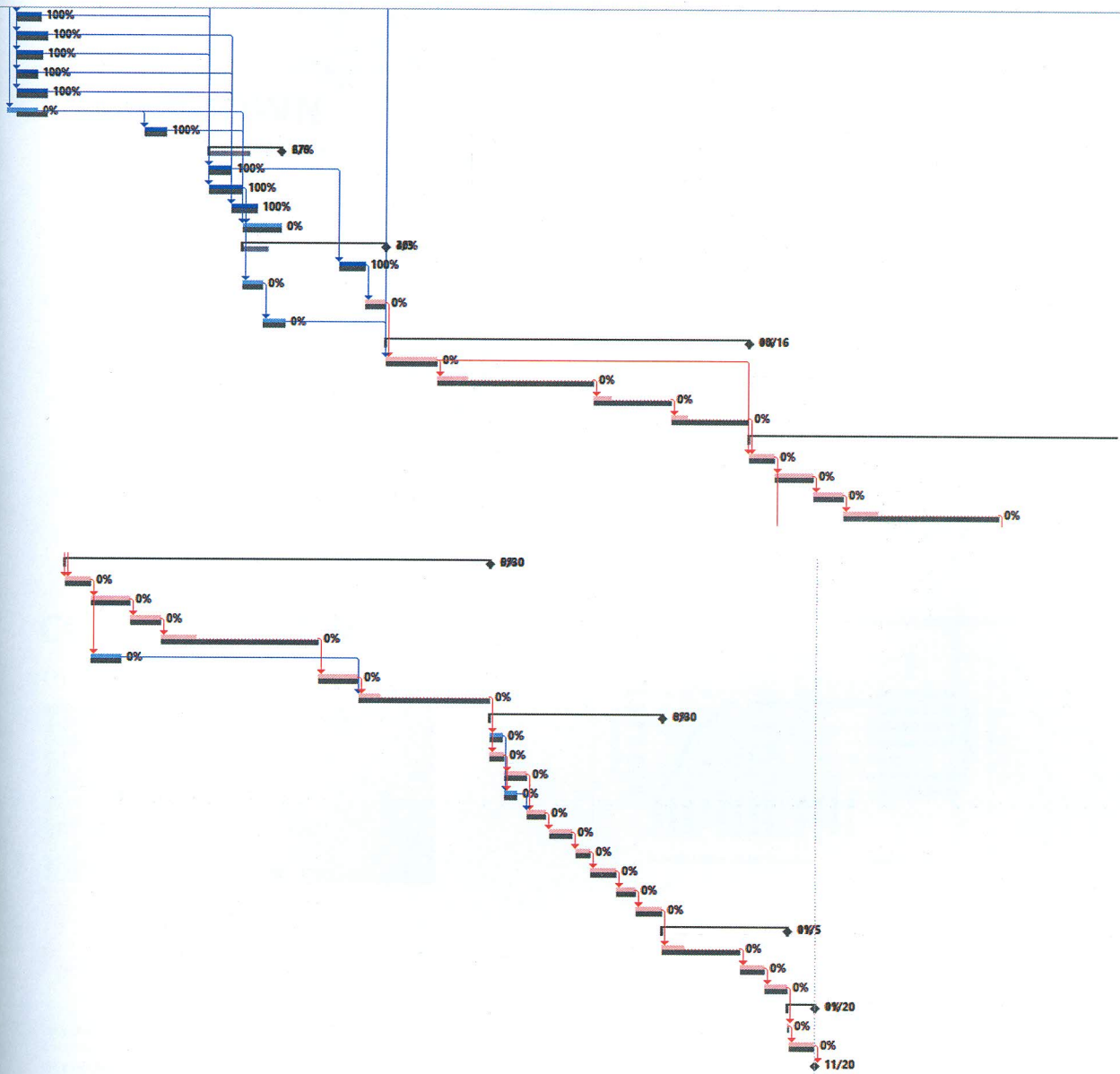
GANIT CHART			Task Mode	WBS	Task Name	Prede	Duration	Start	Finish	Resource Names	Miles	Critic
	61			1.10.1	Underground Drilling	51,52	10 days	Fri 12/30/16	Tue 1/10/17	Draining Equipment	No	No
	62			1.10.2	Underground Base Manufacturing	53,55	15 days	Fri 12/30/16	Mon 1/16/17	Bricks [0.9], Cement [0.9],Drilling	No	No
	63			1.10.3	Drilled Pillar Holes	54,56,57	12 days	Wed 1/11/17	Tue 1/24/17	Bricks [1], Cement [1],Civil	No	No
	64			1.10.4	Digging Poles	61,58,59	18 days	Tue 1/17/17	Mon 2/6/17	Bricks [1],Cement [1]	No	No
	65			1.11	⚡ Sewerage Operations		65 days	Tue 1/17/17	Mon 4/3/17		Yes	Yes
	66			1.11.1	Sewerage Holes	61	12 days	Fri 3/10/17	Thu 3/23/17	Cement [0.42], Concrete [0.42],Drilling	No	No
	67			1.11.2	Sewerage Pipe Placements	62	10 days	Tue 1/17/17	Fri 1/27/17	Bricks [1], Concrete [1]	No	No
	68			1.11.3	Sewerage Pipe Fittings	66	8 days	Fri 3/24/17	Mon 4/3/17	Bricks [1], Concrete [1],Masons	No	Yes
	69			1.11.4	Sewerage Coverings	67	10 days	Sat 1/28/17	Wed 2/8/17	Sanitary Fitting Materials [1]	No	No
70			1.12	⚡ Steel Structuring		140 days	Tue 4/4/17	Mon 10/16/17		Yes	Yes	
71			1.12.1	Pillar Manufacturing	15,68,69	20 days	Tue 4/4/17	Mon 5/1/17	Bolts [1],Bricks [1], Cement [1],Civil	No	Yes	
72			1.12.2	Steel Fabrication	71	13 days	Tue 5/2/17	Mon 7/24/17	Bolts [1],Nuts [1], Sand [1],Site	No	Yes	
73			1.12.3	Steel Rods Alignment	72	8 days	Tue 7/25/17	Mon 9/4/17	Bolts [1], Concrete [1],Electrician	No	Yes	
74			1.12.4	Steel Pillars Assembling	73	7 days	Tue 9/5/17	Mon	Bolts [1],Nuts [1],	No	Yes	

		WBS	Task Name	Prede	Duration	Start	Finish	Resource Names	Miles	Critic
75		1.13	⚡ Civil Structuring		162 days	Tue 10/17/17	Wed 5/30/18		Yes	Yes
76		1.13.1	Pillars Cementing	71,74	10 days	Tue 10/17/17	Mon 10/30/17	Bricks [1], Cement [1], Concrete	No	Yes
77		1.13.2	Cement Poles	76	15 days	Tue 10/31/17	Mon 11/20/17	Bolts [1], Cement [1],	No	Yes
78		1.13.3	Cement Basis	77	12 days	Tue 11/21/17	Wed 12/6/17	Bolts [1], Bricks [1], Ce	No	Yes
79		1.13.4	Cement Iron Slabs	78	13 days	Thu 12/7/17	Wed 2/28/18	Iron Rods [1], Site Engineers , Steel	No	Yes
80		1.13.5	Plaster Roads	76	12 days	Tue 10/31/17	Wed 11/15/17	Bricks [1], Cement [1]	No	No
81		1.13.6	Concave Pillars	79	15 days	Thu 3/1/18	Wed 3/21/18	Bricks [1], Cement [1], Concrete	No	Yes
82		1.13.7	Train Resisting Poles	80,81	8 days	Thu 3/22/18	Wed 5/30/18	Site Engineers , Steel Frames , Steel	No	Yes
83		1.14	⚡ Mid Project Assessment		66 days	Thu 5/31/18	Thu 8/30/18		Yes	Yes
84		1.14.1	Visits of Engineers	82	5 days	Thu 5/31/18	Wed 6/6/18	Management team 1, Site Engineers	No	No
85		1.14.2	Compatibility of Underpass	82	6 days	Thu 5/31/18	Thu 6/7/18	Project Quality Manager	No	Yes
86		1.14.3	Revised Planning	85	8 days	Fri 6/8/18	Tue 6/19/18	Project Manager , Project Planner	No	Yes
87		1.14.4	Quality Assurance Measures	84,85	5 days	Fri 6/8/18	Thu 6/14/18	Project Quality Manager	No	No
88		1.14.5	Inspection Schedule	86,87	8 days	Wed 6/20/18	Fri 6/29/18	Management team 1	No	Yes

		Task Mode	WBS	Task Name	Preds	Duration	Start	Finish	Resource Names	Miles	Critic
90			1.14.7	Mid-term Auditing	89	6 days	Mon 7/16/18	Mon 7/23/18	Management team 1	No	Yes
91			1.14.8	On-going Auditing	90	10 days	Tue 7/24/18	Mon 8/6/18	Project Quality Manager	No	Yes
92			1.14.9	Final Auditing Arrangements	91	8 days	Tue 8/7/18	Thu 8/16/18	Project Manager , Project Planner	No	Yes
93			1.14.10	Meeting of Project Management Staff	92	10 days	Fri 8/17/18	Thu 8/30/18	budeting team , Management team 1,	No	Yes
94			1.15	Plumbing and Electrical Works		47 days	Fri 8/31/18	Mon 11/5/18		Yes	Yes
95			1.15.1	Plumbing Material Placements	93	8 days	Fri 8/31/18	Thu 10/11/18	Bricks [1], Cement [1],Masons 1	No	Yes
96			1.15.2	Electrical Material Placements	95	9 days	Fri 10/12/18	Wed 10/24/18	Electrical Engineers , Electricity Materials	No	Yes
97			1.15.3	Electrical Products Assessment	96	8 days	Thu 10/25/18	Mon 11/5/18	Architecture , Bolts [1],Electrical	No	Yes
98			1.16	Finalizing the Underpass Design		11 days	Tue 11/6/18	Tue 11/20/18		Yes	Yes
99			1.16.1	Assembling Pillars with Cement Plates	97	1 day	Tue 11/6/18	Tue 11/6/18	Bolts [1],Bricks [1], Cement [1],Civil	No	Yes
100			1.16.2	Testing Underpass with deploying weight	99	10 days	Wed 11/7/18	Tue 11/20/18	Management team 1, Project Manager ,Pro	No	Yes
101			1.16.3	Finalizing Alongside Roads	100	0 days	Tue 11/20/18	Tue 11/20/18	Management team 2, Project Manager ,Pro	Yes	Yes

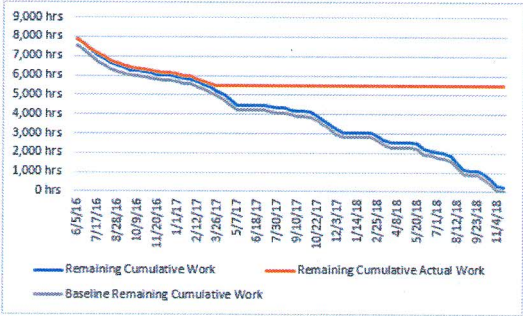
NETWORK DIAGRAM



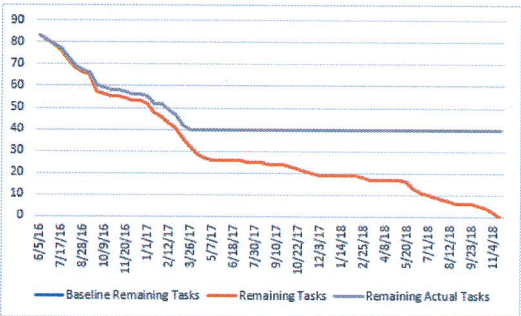


Fri 6/10/16 - Tue 11/20/18

BURNDOWN



WORK BURNDOWN
Shows how much work you have completed and how much you have left. If the remaining cumulative work line is steeper, then the project may be late. Is your baseline zero?



TASK BURNDOWN
Shows how many tasks you have completed and how many you have left. If the remaining tasks line is steeper, then your project may be late.

COST OVERVIEW

FRI 6/10/16 - TUE 11/20/18

COST

\$327,268,800.00

REMAINING COST

\$487,980,400.00

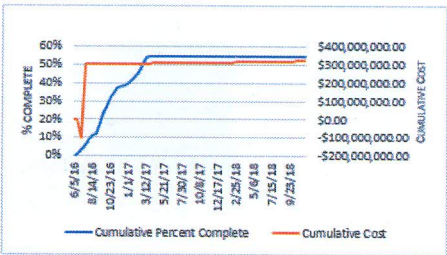
% COMPLETE

55%

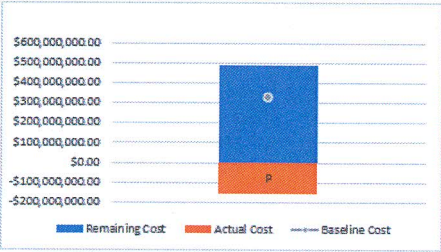
COST STATUS
Cost status for top level tasks.

Name	Actual Cost	Remaining Cost	Baseline Cost	Cost	Cost Variance
P	(\$160,711,600.00)	\$487,980,400.00	\$327,268,800.00	\$327,268,800.00	\$0.00

PROGRESS VERSUS COST
Progress made versus the cost spent over time. If % Complete line below the cumulative cost line, your project may be over budget.



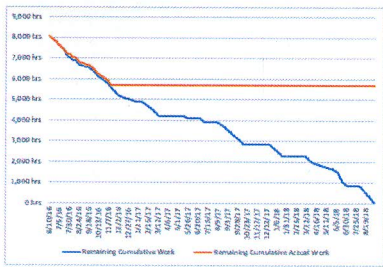
COST STATUS
Cost status for all top-level tasks. Is your baseline zero?
[Try setting as baseline](#)



Create dynamic reports

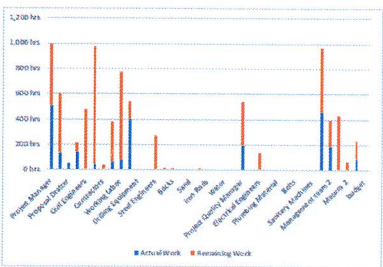
Here's your project status. To see more reports select the "Report" tab from the ribbon.

skip & go to your tasks
Next >
[Learn more](#)



TASK BURNDOWN
Shows how many tasks are completed and how many are left. If the remaining tasks line is steeper, then your project may be late.

[Learn how to create a burndown](#)



WORK STATUS
Shows work status for all your team members. Is this report blank? Assign tasks to team members and add start and finish dates for task to see work status.

PROJECT OVERVIEW

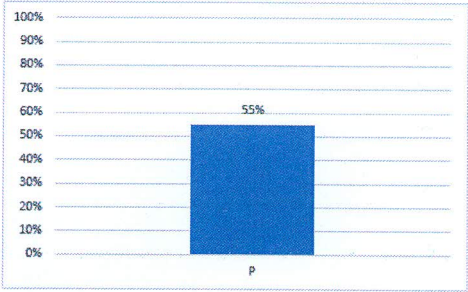
FRI 6/10/16 - TUE 11/20/18



MILESTONES DUE
Milestones that are coming soon.

Name	Finish
Finalizing Alongside Roads	Tue 11/20/18

% COMPLETE
Status for all top-level tasks. To see the status for subtasks, click on the chart and update the outline level in the Field List.



LATE TASKS
Tasks that are past due.

Name	Start	Finish	Duration	% Complete	Resource Names
------	-------	--------	----------	------------	----------------

% Work Complete

29%

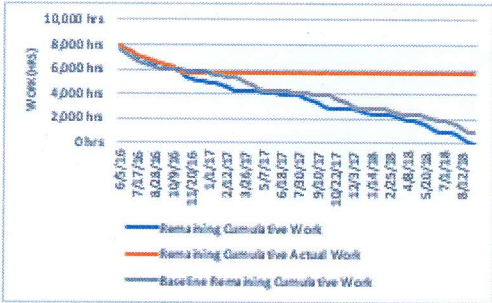
Fri 6/10/16 - Tue 9/11/18

UPCOMING TASKS

REMAINING TASKS

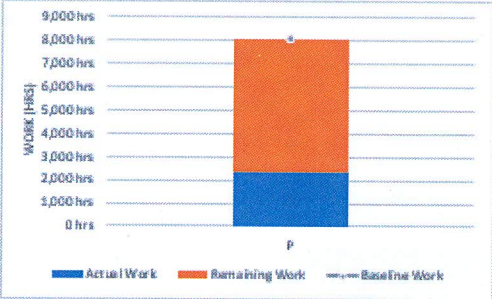
Status of remaining tasks that are due this week



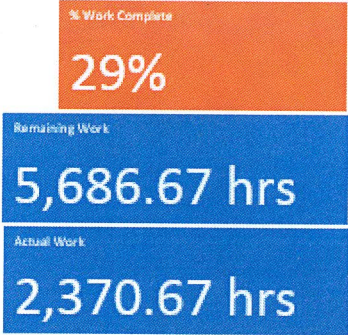
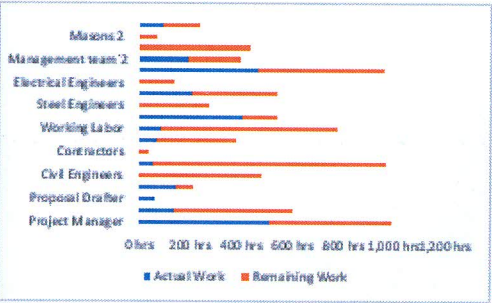


WORK BURNDOWN
Shows how much work you have completed and how much you have left. If the remaining cumulative work line is steeper, then the project may be late.

Is your baseline work zero?
[Try setting a baseline](#)

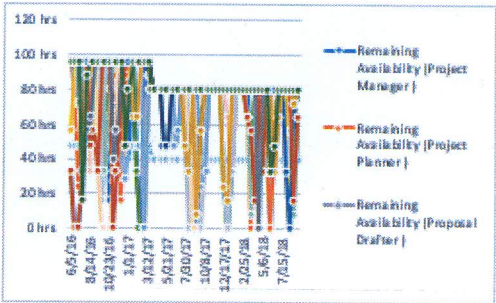


WORK STATS
Shows work stats for all top level tasks.

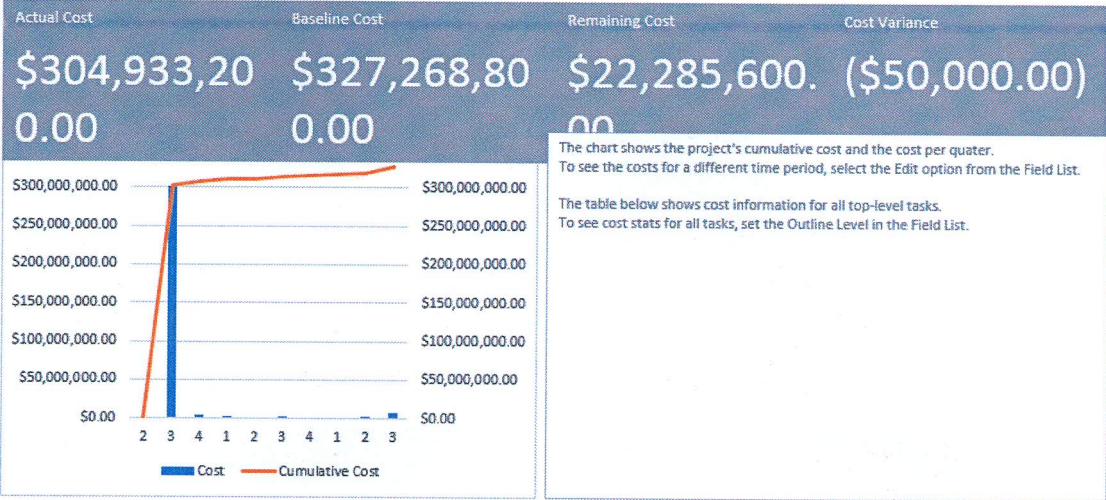


WORK OVERVIEW

Fri 6/10/16 - Tue 9/11/18



CASH FLOW

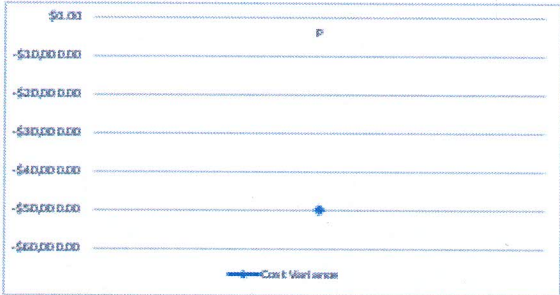


Name	Remaining Cost	Actual Cost	Cost	ACWP	BCWP	BCWS
P	\$22,285,600.00	\$304,933,200.00	\$327,218,800.00	\$48,800.00	\$1,600.00	\$48,800.00

COST OVERRUNS

TASK COST VARIANCE

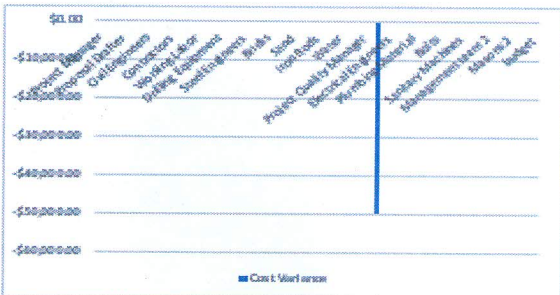
Cost variance for all top-level tasks in this project.



Name	% Complete	Cost	Baseline Cost	Cost Variance
P	50%	\$327,218.80.00	\$327,268.80.00	(\$50,000.00)

RESOURCE COST VARIANCE

Cost variance for all the work resources.

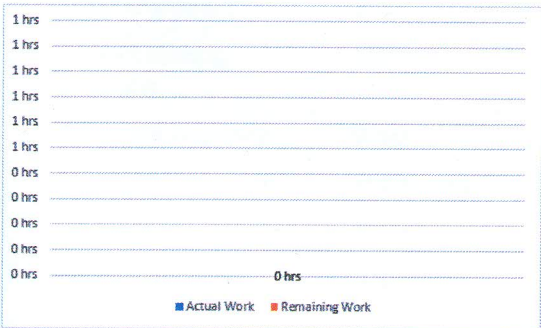


Name	Cost	Baseline Cost	Cost Variance
Project Manager	\$4,960,000.00	\$4,960,000.00	\$0.00
Project Planner	\$540,000.00	\$540,000.00	\$0.00
Proposal Drafter	\$22,400.00	\$22,400.00	\$0.00
Architecture	\$124,800.00	\$124,800.00	\$0.00
Civil Engineers	\$480,000.00	\$480,000.00	\$0.00
Site Engineers	\$968,000.00	\$968,000.00	\$0.00
Contractors	\$18,000.00	\$18,000.00	\$0.00
Supervisors	\$56,400.00	\$56,400.00	\$0.00
Working Labor	\$77,600.00	\$77,600.00	\$0.00
Masons	\$81,200.00	\$81,200.00	\$0.00
Steel Engineers	\$272,000.00	\$272,000.00	\$0.00
Project Quality Manager	\$536,000.00	\$536,000.00	\$0.00
Electrical Engineers	\$5,440,000.00	\$5,440,000.00	\$0.00
Management team 1	\$480,000.00	\$480,000.00	\$0.00
Management team 2	\$196,000.00	\$196,000.00	\$0.00
Masons 1	\$648,000.00	\$648,000.00	\$0.00
Masons 2	\$19,200.00	\$19,200.00	\$0.00
Budgeting team	\$116,000.00	\$116,000.00	\$0.00

OVERALLOCATED RESOURCES

WORK STATUS

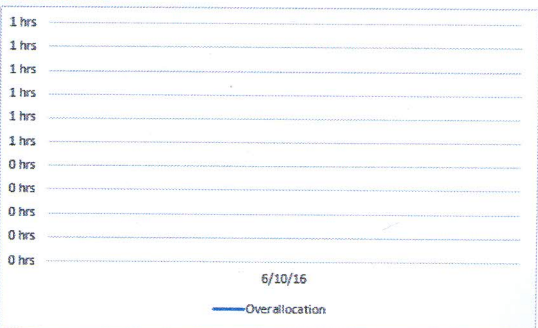
Work status for overallocated resources.



OVERALLOCATION

Surplus work assigned to overallocated resources. To resolve overallocations use

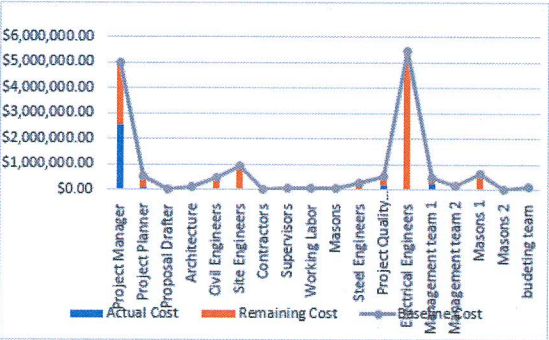
[Team Planner View](#)



RESOURCE COST OVERVIEW

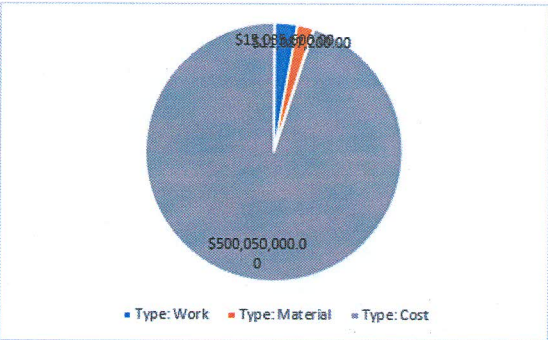
COST STATUS

Cost status for work resources.



COST DISTRIBUTION

How costs are spread out amongst different resource types.



COST DETAILS

Cost details for all work resources.

Name	Actual Work	Actual Cost	Standard Rate
Project Manager	506.67 hrs	\$2,533,333.33	\$5,000.00/hr
Project Planner	136 hrs	\$122,400.00	\$900.00/hr
Proposal Drafter	56 hrs	\$22,400.00	\$400.00/hr
Architecture	144 hrs	\$86,400.00	\$600.00/hr
Civil Engineers	0 hrs	\$0.00	\$1,000.00/hr
Site Engineers	48 hrs	\$48,000.00	\$1,000.00/hr
Contractors	0 hrs	\$0.00	\$500.00/hr
Supervisors	64 hrs	\$9,600.00	\$150.00/hr
Working Labor	80 hrs	\$8,000.00	\$100.00/hr
Masons	402.67 hrs	\$60,400.00	\$150.00/hr
Steel Engineers	0 hrs	\$0.00	\$1,000.00/hr
Project Quality Manager	200 hrs	\$200,000.00	\$1,000.00/hr
Electrical Engineers	0 hrs	\$0.00	\$40,000.00/hr
Management team 1	458.67 hrs	\$229,333.33	\$500.00/hr
Management team 2	186.67 hrs	\$93,333.33	\$500.00/hr
Masons 1	0 hrs	\$0.00	\$1,500.00/hr
Masons 2	0 hrs	\$0.00	\$300.00/hr
budgeting team	88 hrs	\$44,000.00	\$500.00/hr

Resource sheet

Work Breakdown Structure

Following steps are involved in work breakdown structure:

Sr. no #	Main Tasks	Sub Tasks
1	Planning	
1.1		Project Work Breakdown Structure
1.2		Planning Draft
1.3		Scheduling Draft
1.4		Initial Cost Structure
1.5		Initial Resource Allocation
1.6		Proposal
2	Approval	
2.1		In House Approval
2.2		Client's Approval
2.3		Drafting Agreements
2.4		Disbursing Contract Papers
3	Architectural Tasks	
3.1		Architect Map
3.2		Detail Filings
3.3		Detail Approval
3.4		Site Visits
3.5		Feasibility Checking
4	Human Resource Arrangements	
4.1		Contractors Selection
4.2		Supervisor Recruitment
4.3		Labor Recruitment
4.4		Mason Accrual
4.5		Pay Roll Development
4.6		Payment Procedure Finalization
5	Training & Development	
5.1		Labor Relation Meetings
5.2		Project Goals Communication
5.3		Cross-Departmental Team Interaction
6	Financial Alignment	
6.1		Financial Budgeting
6.2		Cash Flow Matters
6.3		Periodic Payments Schedule
6.4		Payments Disbursement Patterns
6.5		Record Keeping for Underpass Development
7	Suppliers Selection	
7.1		Assessing Indigenous Materials
7.2		Enlisting Construction Material

7.3		Enlisting Suppliers for the Material
7.4		Assessing Suppliers on Certain Criteria
7.5		Negotiating with Suppliers
7.6		Finalizing Contracts with Suppliers
8	Logistic Selection	
8.1		Indigenous Carriers Availability
8.2		Renting Trailers from Logistic Services
8.3		Contract with Logistic Firm
8.4		Negotiation on Routes and Cost
8.5		Finalizing Carriers Deal
9	Materials & Equipment Handling	
9.1		Drilling Machines
9.2		Digging Machines
9.3		Sanitary Machines
9.4		Electrical Equipment
9.5		Structuring Equipment
9.6		Cranes
9.7		Lifters
9.8		Plumbing Machines
9.9		Logistics
10	Drilling & Digging Operations	
10.1		Underground Drilling
10.2		Underground Base Manufacturing
10.3		Drilled Pillar Holes
10.4		Digging Poles
11	Sewerage Operations	
11.1		Sewerage Holes
11.2		Sewerage Pipe Placements
11.3		Sewerage Pipe Fittings
11.4		Sewerage Coverings
12	Steel Structuring	
12.1		Pillar Manufacturing
12.2		Steel Fabrication
12.3		Steel Rods Alignment
12.4		Steel Pillars Assembling
13	Civil Structuring	
13.1		Pillars Cementing
13.2		Cement Poles
13.3		Cement Basis
13.4		Cement Iron Slabs
13.5		Plaster Roads
13.6		Concave Pillars
13.7		Train Resisting Poles
14	Mid Project Assessment	
14.1		Visits of Engineers

14.2		Compatibility of Underpass
14.3		Revised Planning
14.4		Quality Assurance Measures
14.5		Inspection Schedule
14.6		Independent Project Inquiry
14.7		Mid-term Auditing
14.8		On-going Auditing
14.9		Final Auditing Arrangements
14.10		Meeting of Project Management Staff
15	Plumbing and Electrical Works	
15.1		Plumbing Material Placements
15.2		Electrical Material Placements
15.3		Electrical Products Assessment
16	Finalizing the Underpass Design	
16.1		Assembling Pillars with Cement Plates
16.2		Testing Underpass with deploying weight
16.3		Finalizing Alongside Roads

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