

**PMO IMPLEMENTATION IN ELITE ENGINEERING PVT LTD
&
EPM SERVER ON PROJECT TITLED "EXTENSION OF A BULK OIL STORAGE DEPOT"**

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ENROLLMENT: 03-298162-019

SEMESTER: SPRING-2017, MSPM - II

PROGRAM: MS (PROJECT MANAGEMENT)



BAHRIA UNIVERSITY LAHORE CAMPUS

SUBMITTED TO: MR. AHSAN MAQBOOL

SUBMISSION DATE: 20-JUNE-2017

ABSTRACT

In the modern era, role and need of project management has increased a great deal and has become a need of survival and growth. Organizations find it necessary to identify and formalize the practices of project management and to develop centers of coordination and excellence for project management. Bahria University takes this thing into account and works on such practices and development of such skills in their students of Masters in Project Management. There is a requirement of implementation of such skills in the real world on real time working organizations in the course "Dynamics of PMO & EPM Server". Current document is the project report of practical implementation of PMO and EPM Server.

This report consists of two parts. First part is about Project Management Office (PMO) and its implementation in an Oil and Gas sector Based EPC (Engineering, Procurement & Construction) company. It emphasizes the importance and need of PMO, how and which type of PMO was implemented in this organization and what was the value addition by PMO.

In the second part of this report, a timeline has been created for a selected project in the same organization and its complete resourcing, tracking and earned value analysis has been performed.

ACKNOWLEDGEMENT

Success is never alone. It has a lot of hard work, dedication, motivation, support and guidance with it. Outcomes of this project required all these ingredients too. A number of people contributed in this success and I want to thank them all.

First of all, thanks to the Almighty ALLAH, the author of knowledge and wisdom, the Supreme Being, without whose will, nothing can be done.

Secondly, I would like to thank my mentor Mr. Ahsan Maqbool, whose guidance and motivation brought me to this achievement. His devotion to his students and is the key aspect of understanding of this course, completion of this project and even a lot more than just this course or project.

Thirdly, I would like to thank my parents and siblings, whose continuous support and motivation made me continue the effort and not to lose hope or motivation.

Last but not the least, I would like to thank my group of friends named as "Brainstormers", including Yasir Bhai, Sinnan Bhai, Anam Sister and especially my dear friend Sehar, whose support and help was with me at every step and these friends never let me feel that I was doing the project alone.

Thank you all for everything you did for me.





CERTIFICATE

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

It is witnessed that Mr. **M. Nabeel Ehtisham** Enrollment: **03-298162-019** Class: **MSPM-II** Semester: **SPRING 2017** 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 in case of participation in organization's project has contributed fully in the following project and within the highlighted fields (Project Planning, Project Scheduling, Earned Value Analysis, Performance Monitoring, Project Tracking, Claim Debugging and Project Coordination):

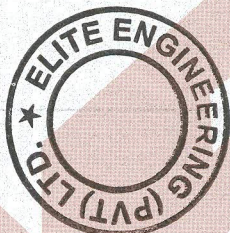
1. Zoom Petroleum Construction/Extension Project of Bulk Oil Storage Depot at Pattoki

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

Additionally, it is noteworthy to mention that Mr. **M. Nabeel Ehtisham** demonstrated good ethical practices, enthusiastic approach to work, task convergence capabilities, professionalism while his stay /connection with this organization.

He is skilled & has performed well in the above fields

Certified By Company Official



Name: Zahed Hussain
Designation: GM Projects & Engineering
Company Name: Elite Engineering Pvt. Ltd.

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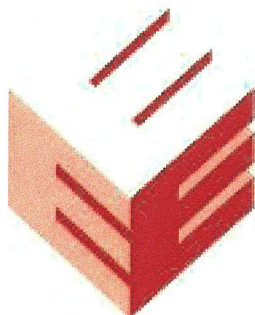
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Chapter 1 About the Company



ELITE ENGINEERING PVT. LTD.

1.1. Introduction

Elite Engineering Pvt. Ltd. started its journey as a consultancy company by the name SHAHZAD AYUB ASSOCIATES in year 1999. Mr. Shahzad Ayub was the owner and CEO of the company. He soon made his mark in clients for exceptional, ethical and professional services with unmatched responsiveness.

In year 2012, Shahzad Ayub Associates transformed from an incubating resource entity to a substantial venture capital corporation named as Elite Engineering Private Limited in Engineering, Procurement and Construction industry. Currently it's a C-1 category registered Engineering company in Pakistan Engineering Council.

Elite Engineering Pvt. Ltd. is committed to achieve its objectives in minimum possible time by aiding advanced technology, proficient techniques and exceptional planning and management plus yielding cost effective and quality products. So Elite Engineering Pvt. Ltd. is recognized as a professional establishment in all areas of expertise.

1.2. Company Vision

The vision of Elite Engineering Private Limited is to become a prominent player in engineering, procurement and construction services with commitment to comply with uncompromising standards of quality safety and environment.

1.3. Company Mission

The mission of Elite Engineering Private Limited is to persistently pursue commitment in building a sustainable engineering business, under professional and ethical management principles and practices, to yield optimum valued benefits to all stakeholders.

1.4. Corporate Policy

The corporate policy of Elite Engineering Pvt. Ltd. is to serve its clients and to maintain its position as a leader in its area of operation.

1.5. HSE Policy

Management of Elite Engineering Pvt. Ltd. is committed to conduct its business in a manner that assures Health, Safety and Security for its employees and avoids damage to company assets.

1.6. Core Values

- Integrity
- Accountability
- Leadership
- People
- Innovation
- Ownership
- Safety

1.7. Company Profile

Elite Engineering Private Limited has been working in several projects since 2013. Major categories of projects successfully completed by EEPL are enlisted below;

- EPC of Bulk Oil Storage Depots
- Fascia Signage of Retail filling stations
- Construction of RCC Road
- Construction of Shoe Factory
- Construction of Factory (Electrical)
- Designing and Construction of Community School

- Construction of Buildings
- Construction of Filling Stations
- Construction of a Grid Station

Currently, several projects are in process phase by Elite Engineering Pvt. Ltd, including the following;

- Construction of multiple filling stations at different sites
- EPC of Bulk oil storage depot at Sarai Naurang
- EPC of Bulk oil storage depot at Bakkhar
- EPC of Bulk oil storage depot at Mehmood Kot
- Extension and Maintenance of Bulk oil storage depots at Daulatpur and Sahiwal (respectively)
- Designing and construction of Drainage and Sump for waste water at Coca Cola plant, Gujranwala
- Fascia Signage and maintenance of filling stations

1.8. Strategic Market Objectives

- Strong reputation in customers
- Superior customer service
- Bigger market share
- Wider geographic coverage
- Higher product & service quality

1.9. Financial Objectives

- Growth in Earnings
- Growth in revenues
- Bigger cash flows
- Higher returns on capital

1.10. Other Objectives

- Foster strong culture
- Supporting the community
- Quality insurance
- Fabrication of fantastic products
- Managing sound environment

1.11. Company Offices

Head Office	UK Office
113-L1, Valencia Town, Lahore, Punjab, Pakistan	Titan Court, 3 Bishop Square, Hatfield Herts, AL109NA UK
Info@eliteengineering.com.pk	uk@eliteengineering.com.pk

1.12. Company Structure

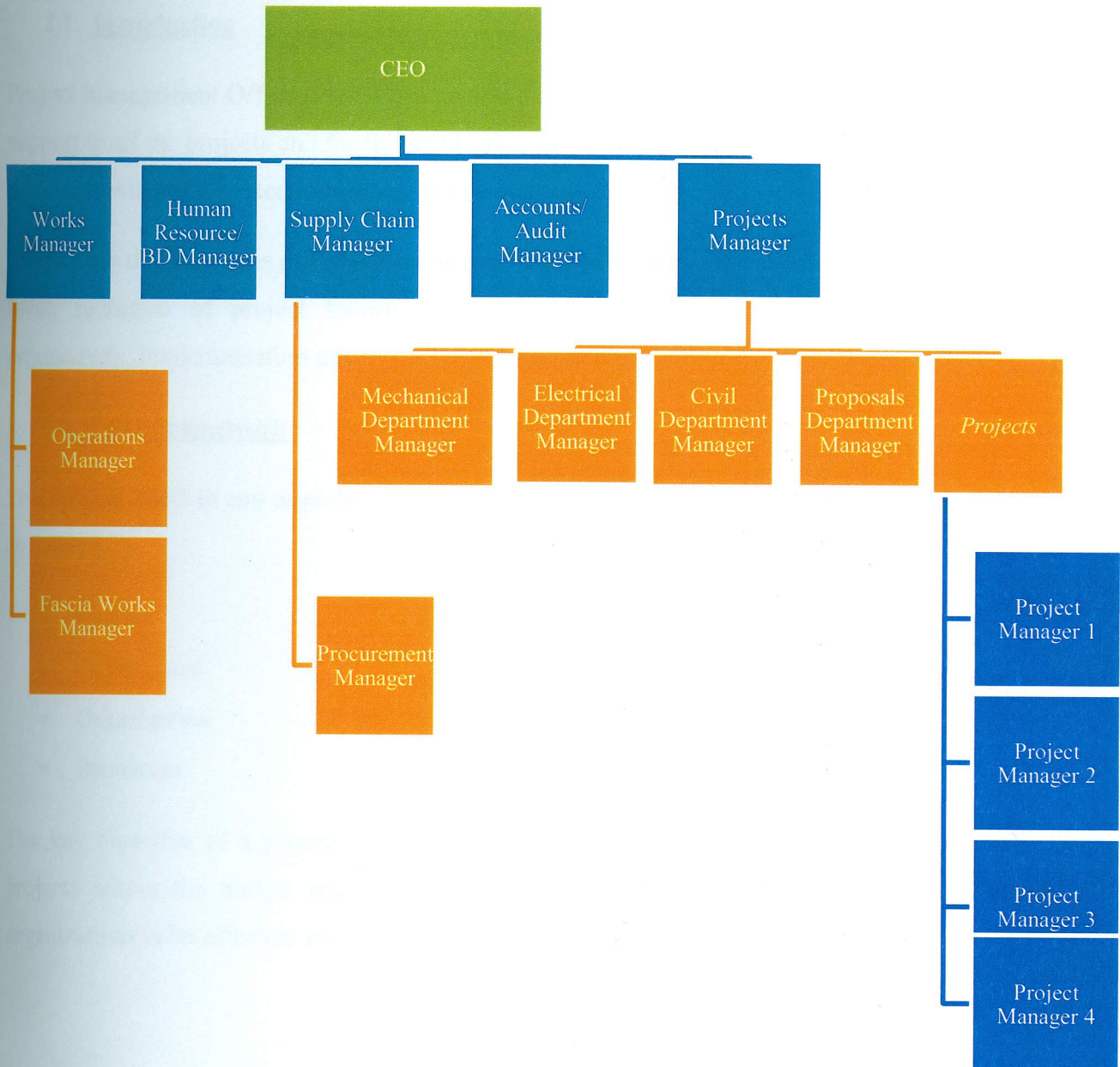


Figure 1: Company Hierarchy of EEPL

Elite Engineering Private Limited is a composite structured organization. The company runs on projects but it is not completely projectized company as day to day operations of retail fuel tanks and small projects of signage fascia also take place at company workshop. Company has central functional departments which deal in every matter with the operations and the projects. Company has five functional departments and Projects also fall under one of the functional department.

Chapter 2 Project Management Office (PMO)

2.1. Introduction

Project Management Office (PMO) is a central department within a company which provides support to all the projects and for the description of standards and for making policies. It also maintains processes related to project management.

We can say that functions of PMO may include standardization, improvement of PM maturity level, reduction of project failure reasons and causes, increase in cost savings and productivity, implementation of project schedule and project delivery within budget.

2.2. PMO Framework

To establish PMO in any organization, there are basically four important elements, which are as follow;

- Process
- Governance
- Organization
- Resources

The key objective of a project management office (PMO) is to ensure the deliverance of projects within the budget and on schedule, which in turn provides an opportunity for organizations to be effective and efficient in their line of business.



Figure 2: PMO Framework

Process:

When we are in the development phase of project management processes, we need to use the good and best practices (i.e. PM-BOK PMI, PRINCE-II etc.).

Governance:

The reporting structure for effective PMO operations should be governed at the project operational level, as well as program level and portfolio level strategic and tactical level.

Organization:

A PMO must be able to deliver benefits to the organization. The areas of focus include project accountability and business operational responsibility.

Resources:

People factor plays vital role in PMO organization and they should have quality conscience, ethical and extensive experience. Skills development programs should be established to build these aspects in PMO team.

2.3. Roles of PMO

There are several types of PMO structures as per their role in organization, each varying in degree of control and in influence on projects within the organization, such as:

- Supportive
- Controlling
- Directive



Figure 3: Roles of PMO

Supportive:

Supportive PMOs provides a consultative role to the projects by supplying the following from other projects.

- Templates
- Best practices
- Trainings
- Access to information
- Lessons learned

This type of PMO serves as a project repository. The degree of control provided by PMO is low. The supportive PMO generally provides support in the form of on-demand expertise, access to information, and expertise on other projects.

Controlling:

Controlling PMOs provide support and require compliance through various means. Compliance may involve adopting project management frameworks or methodologies, using specific templates, forms and tools, or conformance to governance. The degree of control provided by the PMO is moderate. This model assumes that the PMO is responsible for defining and controlling use of methodologies, standards, templates, and policies related to project delivery.

Directive:

Directive PMOs take control of the projects by directly managing the projects. The degree of control provided by the PMO is high. The PMO is accountable for the project management function within the company and responsible for providing program and project management resources to run projects. As organizations undertake projects, professional project managers from the PMO are assigned to the projects.

2.4. Types of PMO

There are three types of PMO:

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

2.5. PMO Responsibilities

The PMO continuously ensures that enterprise assets and resources are strategically aligned with business goals. The exact roles of a PMO vary from organization to organization depending upon their needs and nature of the on-going projects. The major role of the PMO is to define and maintain process standards by providing a framework to establish standard performance measures based on organizational goals and objectives, and providing tools and procedures to achieve this. This results into three key areas:

- Establishing Project Methodologies
- Project Tracking
- Project Support

A brief difference between PMO Manager and Project Manager can be depicted as follows;

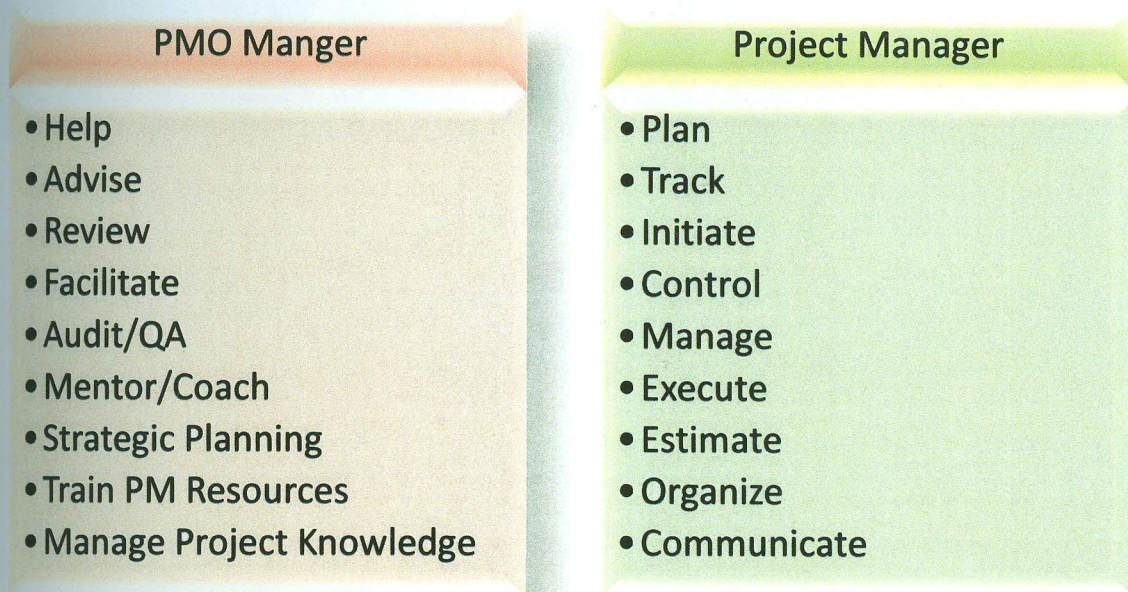


Figure 4: PMO Manager VS Project Manager

2.6. Elements of an Effective PMO

An effective PMO is a combination of the right people, the right tools and the right data. The right people should have been covered from multiple disciplines. It is very important to select required EPM tools.

Project status reports showing right data should be provided to the management for measuring project success. These elements for an effective PMO can be depicted as:



The Right People

- Include people from the supply side and market side of the organization.
- A PMO requires skills in marketing and communications.
- The PMO should cover multiple disciplines.



The Right Tools

- PMOs may purchase Enterprise Project Management (EPM) tools
- With low project management maturity, sophisticated tools meet heavy resistance.
- PMOs without a marketing plan to gain strong buy-in on tool usage are doomed.



The Right Data

- To improve, project delivery must be measurable.
- This process is often accomplished with project status reports.
- The PMO must diagnose system problems to help solve them.

Chapter 3 Implementation of PMO in EEPL

3.1. Introduction

Elite Engineering Pvt. Ltd. is a growing projectized organization with a number of ongoing projects. The course requirement of Computer Based Training subject (MSPM-II) is to implement Project Management Office (PMO) in an organization. As I work in Elite Engineering Pvt. Ltd. and it is a composite structured organization, so I chose to apply PMO on EEPL.

Currently, EEPL has no PMO. The number of projects in EEPL is increasing as the company is itself increasing, which is in turn a good thing. But as the things increase and as the more things run in parallel, there is more chance of errors, more risks and more need of Project management maturity. PMM is even needed in single project and in fewer projects, so in more projects its need multiplies.

3.2. Current Structure

As already described earlier, EEPL is a composite structured company. There are multiple functional managers in the company. The project managers get assistance from the dedicated functional departments, which perform their respective role in the project. Some projects are directly managed by the functional departments as per the nature of the project like signage projects are solely managed by the works department. The company has five high level functional managers which directly report to the CEO of the company. The Engineering departments are under the Projects Manager who is also the manager of all the project Managers or we can say that who is program manager of the company.

Each project itself has its own engineering departments, accounts departments and audit departments, which are under the dedicated central respective department and report to them directly. Project manager thus has its own staff as well as staff from functional departments which play their respective role in the project. There is a conflict of interest sometimes as the functional staff deployed on a project is also reporting to the project manager. The functional departments have to achieve their own tasks and complete their own responsibilities, which sometimes can create a clash with the project work.

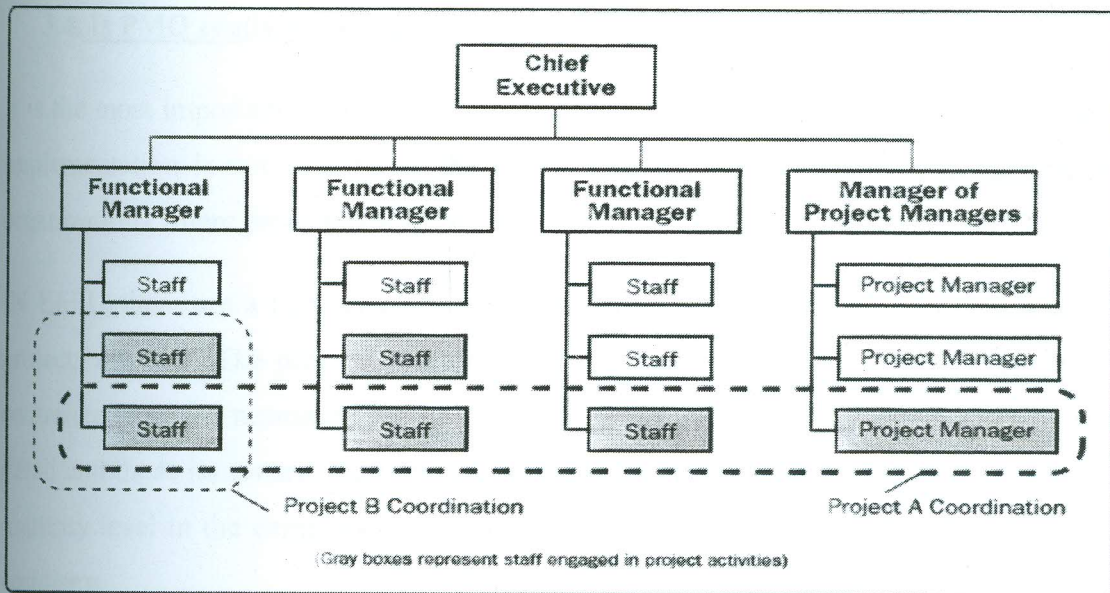


Figure 5: Composite Company Structure

3.3. Problems without PMO

Below is a list of problems which were indicated in Mughals Pakistan Pvt. Ltd which were due to absence of a centralized unit (PMO).

- Project reports are not formed on regular bases.
- There are no proper formats for documentation and everyone follows its own will.
- No risk assessment is done and mostly reactive approach is used.
- No OPA's are formed and no historical data is maintained.
- No lessons learned document is formed after a project completion and same mistakes are repeated by different managers.
- No project management practices are applied on the projects.
- Project manager has full time staff along with part time staff and the project manager has no authority in many matters.
- Projects are not documented properly.
- Project is not tracked on the set baselines properly.
- Mostly the projects are finished late and over budget.
- Project management skill is lagging in project team as well as the project manager.

3.4. Is PMO really required

It is the most important question before implementation of a PMO in an organization. PMO implementation is not necessarily the best option in case of smaller organizations and in organizations where projects are numbered to one.

IN EEPL, there are a number of functional departments and at the same time a number of projects ongoing. The projects are also similar in nature as well as of diverse nature. So a centralized PMO is necessary for the company. Issues EEPL is facing are discussed earlier in detail and those issues are likely to be catered by PMO. PMO will also improve management maturity level in the company and improve the level of performance and coordination in the company.

3.5. Proposed type of PMO

Keeping the issues and problems in consideration which arise due to absence of PMO, Control tower PMO or Controlling PMO is the most suitable and most required type of PMO for EEPL, so it is the proposed type. As the issues are not limited to management or status, rather some new policies need to be implemented and it is needed to provide a direction, so controlling PMO is the most suitable type of PMO. It will be formed at Head Office Elite Engineering Pvt. Ltd.

3.6. PMO Vision

The vision of PMO Elite Engineering Pvt. Ltd. is to be a team of highly experienced and effective personnel which reduce the project issues and errors to minimum level, contributing in success of projects and of EEPL in terms of efficiency, effectiveness and achievement, and to bring EEPL in the league of organizations where . PMO in Mughals Pakistan is a team of experienced and effective members who will identify and manage the problems so that every project is a success in terms of time, cost and quality.

3.7. PMO Mission

The mission of PMO EEPL is to create a project management culture and supporting environment in the organization with proper documentations and implementation of modern project management practices

3.8. PMO Core Values

- Neutral
- Unbiased
- Organized
- Updated

3.9. Stakeholders

Enlisted below are the main stake holders of the company. Level of influence, power and interest of these stakeholders would be kept in mind while implementing PMO.

- CEO
- HR/ Admin Manager
- Accounts/Audit Manager
- Supply Chain Manager
- Works Manager
- Project's Manager

3.10. Proposed PMO Objectives

The proposed PMO will have following objectives;

- A Centralized department to support all projects and all Project works
- To standardize the project processes and to get everything streamlined at optimum level
- To introduce the good practices and project management processes.
- To develop appropriate and required set of skills in project teams.
- To provide feedback to senior management on solutions to problems and optimization.
- To create a centralized repository of project resources and documentations.
- To plan and advise for resource leveling and other optimization techniques.
- To provide support in project management and maintain the usage of project management tools.
- To ensure project baselines for project tracking.

- Verifying the reporting and audit requirements and making sure company is applying those.
- Making sure company has appropriate health and safety policies according to the project requirements.
- Assessment of new projects and filling the gaps.
- Providing and maintaining standard templates and formats throughout EEPL.
- Team development and career development.

3.11. PMO Roles and Responsibilities

To develop standard formats and templates:

Standard templates of the following documents have been developed.

- Project Charter
- Project Scope Statement
- Weekly progress report

Following document template would be developed.

- Standard HSE format for every project
- Project Management Plan
- Historical Data documents
- Risk Register and Risk management Plan
- Change Management Plan

Implementation of standardized templates and processes:

- All the standard documents would be prepared for every project.
- PMO will be monitoring all documentation flow and ensuring compliance to standard documents by all the respective departments.
- Standard procedure would be formed to monitor the projects and to access the new projects.
- Implementation of latest and required scheduling tools is to be made sure and relevant training would be provided.

Coordination with all Departments:

PMO will be coordinating with all departments for continuous improvements in all departments to eliminate the communication barriers and to increase effectiveness and one unit concept. PMO will also play its role in elimination of conflict of interest.

Project management training:

PMO will provide trainings to all the department teams and the project teams to increase their level of management up to the mark and to create the required set of skills in the teams. They will also make sure to create complete awareness of following the documentation and other procedures.

PMO will link between the theoretical grounds and actual grounds and apply all techniques for interaction like brainstorming, Delphi techniques etc. for feedback purposes as well as for making sure how everything is to be implemented.

Reporting to Senior Management:

PMO will be providing weekly status reports for all the projects.

PMO will be evaluating all the upcoming projects and providing them rating for selection purpose.

3.12. PMO Success Factors

Following are some factors which are very important for success of proposed PMO;

Support from senior management.

- Cooperation of all departments.
- Effective communications and stakeholders management.
- Compliance with project management standards.
- Continuous reporting and measurement of defined project goals.

3.13. Proposed Structure of Organization

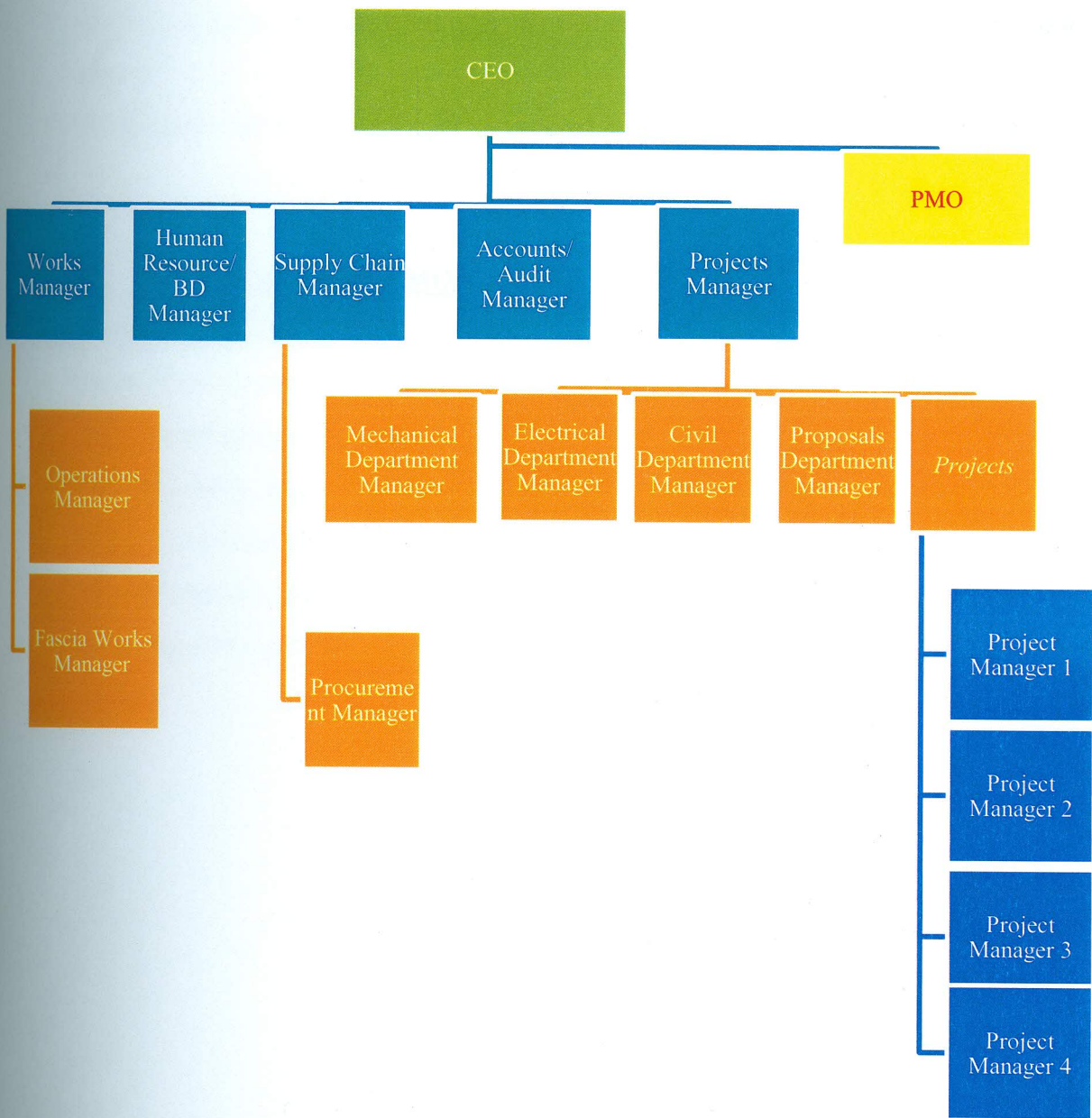


Figure 6: New and proposed hierarchy of company

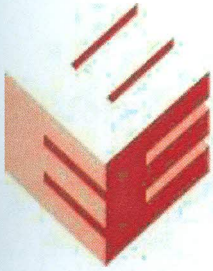
PMO will be directly in coordination and reporting to the CEO of the company. It would not be a direct boss to any project or department for clash of authority and power avoidance, rather it would provide support and control the projects' direction and be directly reporting to CEO.

3.14. Challenges faced while establishing PMO

- There was no clear understanding of need and role of PMO by the senior management.
- Senior management considered it as an overhead as company was growing without it too.
- Project team and project manager considered it as a threat and showed opposition.
- Project teams take the PMO as auditors instead of facilitators

3.15. Value addition by PMO

- Resource Leveling
- Project Coordination and Project Tracking
- Project management application
- Standardization and Optimization
- Projects documentation
- Central Control tower for all the sites minimizing the gaps
- Formation of Organizational Process Assets



Elite Engineering Pvt. Ltd.

Project Charter



Version: 1.0

Version History

Version #	Issue Date	Approved By	Approval Date	Changes	Prepared By
1.0	19-05-2017	PMO	19-05-2017	-	M. Nabeel Ehtisham

Chapter 4 PROJECT CHARTER

Project Name	Extension of a Bulk Oil Storage Depot at Pattoki
Description	A Bulk oil storage depot of Zoom petroleum Pvt. Ltd. is already constructed at Pattoki. Current project is extension of the same depot which includes fabrication and erection of a Bulk storage tank and piping from the tank to gantry area. All civil work prerequisite of this mechanical work is included.
Project Objectives	Project Objective is to construct the base of a vertical HSD tank and then fabricate and erect the tank. Along with it, provide piping from tank to the pump room and from there to the gantry area. Everything should be according to the OGRA regulations and as per the API-650 code.
Acceptance Criteria	Acceptance Criteria of this tank is successful results of NDT applied on tank and on piping. These Non-Destructive testing includes Dye Penetrant Testing, Radiographic Testing and Hydro Testing.
Assumptions	The tank would be able to store 420 tons of liters of HSD fuel at its 90% storage capacity. Timely delivery of material and timely documented approvals from the concerned authorities would be made sure by the respective vendors and the client. Prices or materials will not increase during the project phases.
Constrains	Material Delivery would be possible during night time only as the site is along with NHA.
Project Duration	182 Days
Project Start Date	8 th February, 2017
Project Completion Date	#1st August, 2017
Milestones List	Piping Pre Work Completed Piping Work Completed Civil Work Completed Mechanical Work Completed Testing Completed
Project Budget	27.25 Million PKR

High Level Risks	<p>Material unavailability at site may delay the project.</p> <p>Unavailability of Key resources and qualified labor may result in quality deterioration.</p> <p>Any act of God during execution phase (Storm etc.).</p> <p>Approval delay or rejection from concerned bodies.</p>
Major Stakeholders List	<p>Client (Zoom Petroleum Pvt. Ld.)</p> <p>Elite Engineering Private Limited</p> <p>OGRA Pakistan</p> <p>Project Manager</p> <p>Project Team</p>
Project Manager	<p>Mr. Farooq Azam</p>
Roles and Responsibilities	<p>Project Client:</p> <ul style="list-style-type: none"> • Providing specifications, details and drawing layouts • Approving changes in scope • Arranging OGRA visits and getting approval from OGRA and other concerned departments • Providing acceptance of project <p>Project Manager:</p> <ul style="list-style-type: none"> • Ensuring all project phases and Execution of project on the set baselines • Ensuring availability of all required resources and using them for project successful completion • Monitoring and reporting project performance • Complete project planning as per good practices and then following the plans • Ensuring compliance with standards and processes <p>Project Team:</p> <ul style="list-style-type: none"> • Undertaking all tasks allocated by the project manager or their immediate supervisor • Reporting to project manager on regular bases • Maintaining all the documentation

IGNOFF

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.

Prepared By: _____

Date: / 12 / 2016

Name: Mr.

Signature:

Verified By: _____

Date: / 12 / 2016

Name: M.

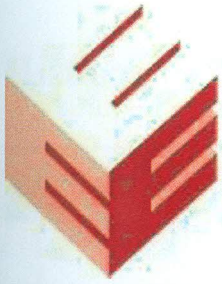
Signature:

Approved By: _____

Date: / 12 / 2016

Name: M.

Signature:



Elite Engineering Pvt. Ltd.

Project Scope Statement



Version: 1.0

Version History

Version #	Issue Date	Approved By	Approval Date	Changes	Prepared By
1.0	19-05-2017	PMO	29-05-2017	-	M. Nabeel Ehtisham

Chapter 5 Project Scope Statement

Introduction

The project scope statement, as per PM-BOK (PMI), describes the project scope, assumptions, constraints and major deliverables. The project scope statement is the comprehensive document which contains both the project scope and the product scope. It describes the project deliverables in detail and tells the work required to achieve those deliverables.

Project Objectives

Project Objective is to construct the base of a vertical HSD tank and then fabricate and erect the tank on it. Along with it, provide piping from tank to the pump room and from there to the gantry area. Everything should be according to the OGRA regulations and as per the API-650 code.

Major Deliverables

- Piping Work
 - Piping Pre Work
 - Underground Piping
 - Above the ground Piping
- Tanks Work
 - Civil Work
 - Mechanical Work

Milestones List

- Piping Pre Work Completed
- Piping Work Completed
- Civil Work Completed
- Mechanical Work Completed
- Testing Completed

Assumptions and Constrains

- The tank would be able to store 420 tons of liters of HSD fuel at its 90% storage capacity.
- Timely delivery of material and timely documented approvals from the concerned authorities would be made sure by the respective vendors and the client.
- Prices or materials will not increase during the project phases.
- Material Delivery would be possible during night time only as the site is along with NHA.

Limits and Exclusions

- EEPL has the right to contract out the services.
- EEPL will be responsible for subcontracted work.
- Design specifications will be provided by ZOOM petroleum Pvt. Ltd
- All approvals and meetings would be on the client and EEPL will be responsible to follow the requirements and impositions.

Technical Specifications

Excavation:

Excavation will also include clearing and grabbing of the area where tank is to be erected as it is vegetation land. All the bio degradable and decomposable soil would be excavated before base formation.

Tank specifications:

Tank Shell plates will be welded to form shells. Bottom shell would be 8mm thick and rest shells would be 6mm thick. MS plates would be used for tank fabrication which will be sand blasted first. Welders will be qualified and tested. Tank diameter would be 12m and height of tank will be 25m. According to these calculations, the tank should store 420 tons of liters of HSD at 90% storage capacity. API-650 and OGRA regulations would be followed. Detailed specifications and drawings would be verified by client first.

NDT:

Following non-destructive testing techniques would be applied for testing of tanks and piping.

1. Tanks:

- Radiography Testing
- Dye Penetrant Testing
- Hydro Testing

2. Piping:

- Dye Penetrant Testing
- Hydro Testing

Chapter 6 Microsoft Project Documents List

The schedule of this project is prepared in MS project. This section contains reports of the project obtained from MS Project. Project is currently in progress. Tracking has also been performed of the project up till the project is completed. Following areas and reports of the project schedule document are attached in this report.

Schedule Documents:

1. Work Breakdown Structure
2. Resource Sheet
3. Project Schedule
4. Network Diagram
5. Project Milestones List
6. Project Earned Value Management

Reports:

1. Burndown
2. Cost Overview
3. Project Overview
4. Upcoming Tasks
5. Work Overview
6. Overallocated Resources
7. Resource Overview
8. Cash Flows
9. Cost Overruns
10. Earned Value Report
11. Resource Cost Overview
12. Task Cost Overview
13. Critical Tasks
14. Late Tasks
15. Milestones Report
16. Slipping Tasks Report
17. S-Curve

Chapter 7 Project Schedule Documents

7.1. Work Breakdown Structure

ID	WBS	Task Mo	Task Name	Duration	Baseline Estimated Duration	Start	Finish	Predecessors
1	1		Zoom Depot Project	208 days	182 days	Wed Feb 8	Sun Sep 3	
2	1.1	✓	Zoom Piping Work	13 days	6 days	Wed Feb 8	Mon Feb 20	
3	1.1.1	✓	Layout	1 day	1 day	Wed Feb 8	Wed Feb 8	
4	1.1.2	✓	Piping Pre Work	9 days	4 days	Thu Feb 9	Fri Feb 17	
5	1.1.2.1	✓	Connection to Head	3 days	2 days	Thu Feb 9	Sat Feb 11	
6	1.1.2.1.1	✓	Connection with Pump Head	2 days	1 day	Thu Feb 9	Fri Feb 10	3
7	1.1.2.1.2	✓	Flanging and Blinding	1 day	1 day	Sat Feb 11	Sat Feb 11	6
8	1.1.2.2	✓	Preparation of Pipes	9 days	4 days	Thu Feb 9	Fri Feb 17	
9	1.1.2.2.1	✓	Wirebrush cleaning of Pipes	2 days	1 day	Thu Feb 9	Fri Feb 10	6SS
10	1.1.2.2.2	✓	Paint Work of Pipes	3 days	1 day	Sat Feb 11	Mon Feb 13	9
11	1.1.2.2.3	✓	Epoxy of Pipes	1 day	1 day	Tue Feb 14	Tue Feb 14	10
12	1.1.2.2.4	✓	Spool Preparation	3 days	1 day	Wed Feb 15	Fri Feb 17	11,7
13	1.1.3	✓	Piping Pre Work Completed	0 days	0 days	Fri Feb 17	Fri Feb 17	12
14	1.1.4	✓	Underground Piping	6 days	3 days	Thu Feb 9	Tue Feb 14	
15	1.1.4.1	✓	Preparation of Ground	6 days	3 days	Thu Feb 9	Tue Feb 14	
16	1.1.4.1.1	✓	Cutting	1 day	1 day	Thu Feb 9	Thu Feb 9	3
17	1.1.4.1.2	✓	Excavation	2 days	1 day	Fri Feb 10	Sat Feb 11	16
18	1.1.4.1.3	✓	Sleeves Formation	3 days	1 day	Sun Feb 12	Tue Feb 14	17
19	1.1.5	✓	Above the ground Piping	12 days	5 days	Thu Feb 9	Mon Feb 20	
20	1.1.5.1	✓	Sleepers formation	1 day	1 day	Thu Feb 9	Thu Feb 9	3
21	1.1.5.2	✓	Sleepers Grouting	2 days	1 day	Fri Feb 10	Sat Feb 11	20
22	1.1.5.3	✓	Spools Connection	3 days	1 day	Sat Feb 18	Mon Feb 20	21,12
23	1.1.5.4	✓	Piping Work Completed	0 days	0 days	Mon Feb 20	Mon Feb 20	22
24	1.2		Zoom Tanks Work	195 days	176 days	Tue Feb 21	Sun Sep 3	
25	1.2.1	✓	Civil Work	78 days	65 days	Tue Feb 21	Tue May 9	
26	1.2.1.1	✓	Layout	1 day	1 day	Tue Feb 21	Tue Feb 21	22
27	1.2.1.2	✓	Excavation	1 day	1 day	Wed Feb 22	Thu Feb 23	26
28	1.2.1.3	✓	Trimming and Levelling	2 days	2 days	Fri Feb 24	Sat Feb 25	27
29	1.2.1.4	✓	Preparation of NGC	4 days	2 days	Sun Feb 26	Wed Mar 1	28
30	1.2.1.5	✓	PCC 1 Layer	2 days	2 days	Thu Mar 2	Fri Mar 3	29

ID	WBS	Task Mo	Task Name	Duration	Baseline Estimated Duration	Start	Finish	Predecessors
31	1.2.1.6	✓	Blind Concrete 1st Layer	2 days	2 days	Sat Mar 4	Sun Mar 5	30
32	1.2.1.7	✓	Blind Concrete 2nd Layer	2 days	2 days	Mon Mar 6	Tue Mar 7	31
33	1.2.1.8	✓	Steel Fixing of Ring Wall	5 days	4 days	Wed Mar 8	Sun Mar 12	32
34	1.2.1.9	✓	Fixing of J Bolts	3 days	3 days	Mon Mar 13	Wed Mar 15	33
35	1.2.1.10	✓	Brick work of Ring Wall	3 days	3 days	Thu Mar 16	Sat Mar 18	34
36	1.2.1.11	✓	Concrete pouring of Ring Wall	3 days	1 day	Sun Mar 19	Tue Mar 21	35
37	1.2.1.12	✓	16 Layers of Sand Filling and Compaction	21 days	17 days	Wed Mar 22	Tue Apr 11	36
38	1.2.1.13	✓	Top Layer Levelling and Dressing	5 days	4 days	Wed Apr 12	Sun Apr 16	37
39	1.2.1.14	✓	Asphalt Work	3 days	3 days	Mon Apr 17	Wed Apr 19	38
40	1.2.1.15	✓	Earth Filling around Tank Foundations	8 days	8 days	Thu Apr 20	Thu Apr 27	39
41	1.2.1.16	✓	Brick Pitching around Tank Foundations	12 days	9 days	Fri Apr 28	Tue May 9	40
42	1.2.2		Three Sides of HSD Dyke Wall	35 days	23 days	Wed May 10	Tue Jun 13	
43	1.2.2.1	✓	Layout	1 day	1 day	Wed May 10	Wed May 10	41
44	1.2.2.2	✓	Excavation	4 days	3 days	Thu May 11	Sun May 14	43
45	1.2.2.3	✓	PCC	8 days	8 days	Mon May 15	Mon May 22	44
46	1.2.2.4	✓	Brick Work	5 days	3 days	Tue May 23	Sat May 27	45
47	1.2.2.5	✓	Steel Fixing of Top Beam	5 days	2 days	Sun May 28	Thu Jun 1	46
48	1.2.2.6	✓	Shuttering	2 days	2 days	Fri Jun 2	Sat Jun 3	47
49	1.2.2.7		Concrete Pouring	2 days	2 days	Sun Jun 4	Mon Jun 5	48
50	1.2.2.8		Plaster Work	8 days	2 days	Tue Jun 6	Tue Jun 13	49
51	1.2.3		Remaining side of HSD Dyke Wall	11 days	11 days	Sat Aug 19	Tue Aug 29	
52	1.2.3.1		Brick Work	3 days	3 days	Sat Aug 19	Mon Aug 21	120
53	1.2.3.2		Steel Fixing of Top Beam	1 day	1 day	Tue Aug 22	Tue Aug 22	52
54	1.2.3.3		Shuttering	3 days	3 days	Wed Aug 23	Fri Aug 25	53
55	1.2.3.4		Concrete Pouring	1 day	1 day	Sat Aug 26	Sat Aug 26	54

ID	WBS	Task Mo	Task Name	Duration	Baseline Estimated Duration	Start	Finish	Predecessors
56	1.2.3.5		Plaster Work	3 days	3 days	Sun Aug 27	Tue Aug 29	55
57	1.2.3.6		Civil Work Completed	0 days	0 days	Tue Aug 29	Tue Aug 29	56
58	1.2.4		Mechanical Work	117 days	111 days	Wed May 10	Sun Sep 3	
59	1.2.4.1		Marking	37 days	25 days	Wed May 10	Thu Jun 15	
60	1.2.4.1.1	✓	Bottom Plate	2 days	2 days	Wed May 10	Thu May 11	41
61	1.2.4.1.2	✓	Shell Plates	5 days	3 days	Fri May 12	Tue May 16	60
62	1.2.4.1.3		Roof Plate	2 days	2 days	Wed Jun 14	Thu Jun 15	42
63	1.2.4.1.4		Manhole shells	2 days	1 day	Thu May 11	Fri May 12	43
64	1.2.4.2	✓	Cutting & Grinding	15 days	12 days	Fri May 12	Fri May 26	
65	1.2.4.2.1	✓	Bottom Plate	2 days	1 day	Fri May 12	Sat May 13	60
66	1.2.4.2.2	✓	Shell Plates	2 days	2 days	Wed May 17	Thu May 18	67
67	1.2.4.2.3	✓	Roof Plate	3 days	3 days	Sun May 14	Tue May 16	65
68	1.2.4.2.4	✓	Manhole shells	3 days	1 day	Wed May 17	Fri May 19	67
69	1.2.4.2.5	✓	Re-Pads	3 days	3 days	Sat May 20	Mon May 22	68
70	1.2.4.2.6	✓	Anchor Chairs Marking & Cutting	2 days	2 days	Wed May 17	Thu May 18	67
71	1.2.4.2.7	✓	Rafter Cutting & Grinding	2 days	2 days	Fri May 19	Sat May 20	70
72	1.2.4.2.8	✓	Shell Nozzles	4 days	4 days	Fri May 19	Mon May 22	66
73	1.2.4.2.9	✓	Roof Nozzles	3 days	3 days	Wed May 17	Fri May 19	67
74	1.2.4.2.10	✓	Stairs	4 days	4 days	Tue May 23	Fri May 26	69
75	1.2.4.3	✓	Rolling	12 days	6 days	Wed May 17	Sun May 28	
76	1.2.4.3.1	✓	Shell Plates	2 days	2 days	Fri May 19	Sat May 20	66
77	1.2.4.3.2	✓	Manhole shells+Repads	6 days	2 days	Mon May 22	Sun May 28	68,69
78	1.2.4.3.3	✓	Curb Angle Rolling	2 days	2 days	Wed May 17	Thu May 18	66SS
79	1.2.4.4	✓	Bottom laying	8 days	7 days	Sun May 14	Sun May 21	
80	1.2.4.4.1	✓	FIT UP	1 day	1 day	Sun May 14	Sun May 14	65
81	1.2.4.4.2	✓	SHORT SEAM WELDING	4 days	1 day	Mon May 15	Thu May 18	80
82	1.2.4.4.3	✓	LONG SEAM WELDING	1 day	1 day	Wed May 17	Wed May 17	81
83	1.2.4.4.4	✓	T-WELDING	4 days	4 days	Thu May 18	Sun May 21	82
84	1.2.4.5		Shell erection	77 days	73 days	Mon May 22	Sun Aug 6	

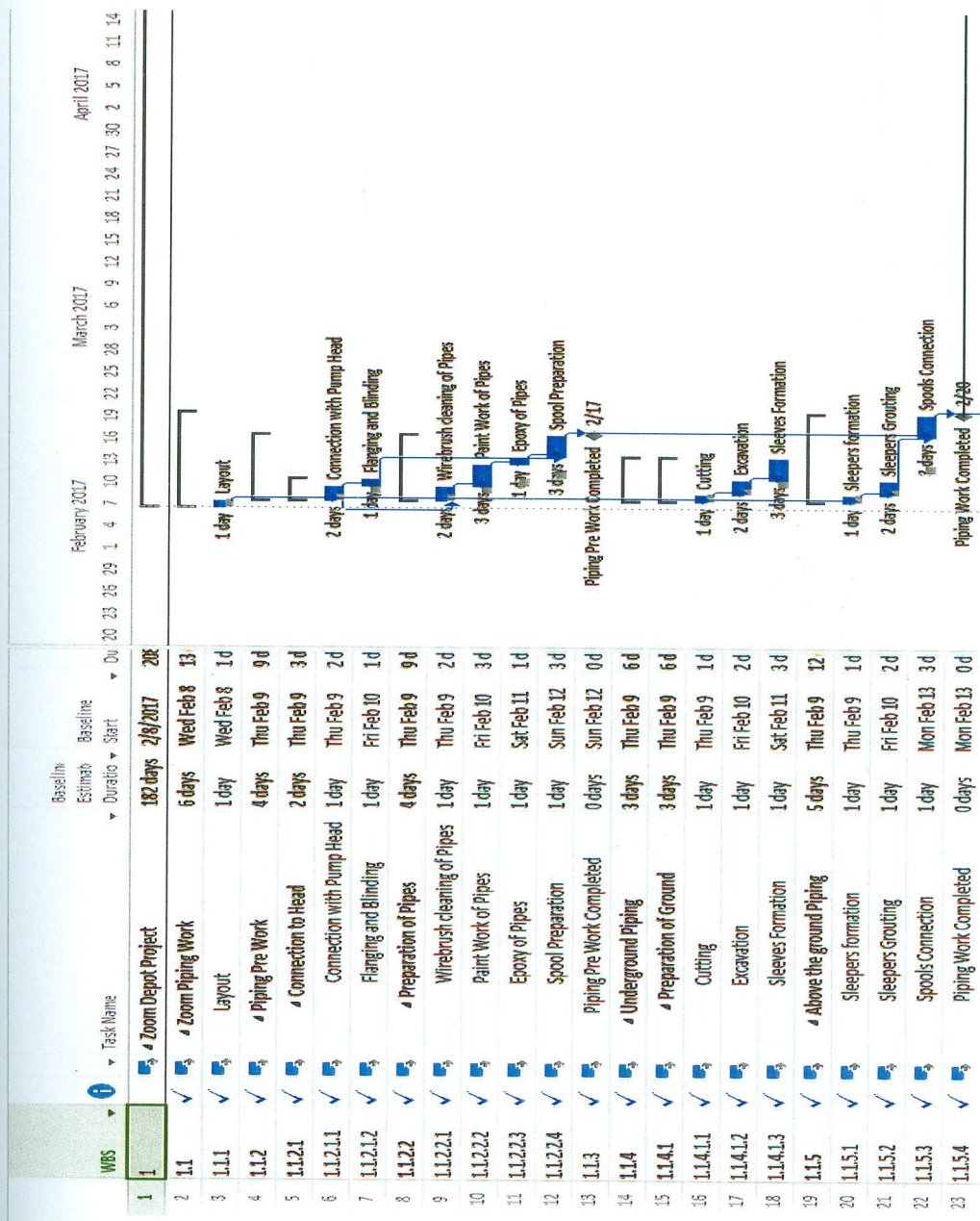
ID	WBS	Task Mo	Task Name	Duration	Baseline Estimated Duration	Start	Finish	Predecessors
85	1.2.4.5.1	✓	1 Fitup	4 days	3 days	Mon May 22	Thu May 25	83
86	1.2.4.5.2	✓	2 fitup	4 days	4 days	Fri May 26	Mon May 29	76,85
87	1.2.4.5.3	✓	1 Welding	4 days	4 days	Tue May 30	Fri Jun 2	86
88	1.2.4.5.4	✓	3 Fitup	6 days	4 days	Sat Jun 3	Thu Jun 8	87
89	1.2.4.5.5	✓	2 Welding	6 days	4 days	Wed Jun 7	Mon Jun 12	88
90	1.2.4.5.6		1 backpass	4 days	4 days	Tue Jun 13	Fri Jun 16	89
91	1.2.4.5.7		4 Fitup	2 days	2 days	Sat Jun 17	Sun Jun 18	90
92	1.2.4.5.8		3 welding	3 days	2 days	Mon Jun 19	Wed Jun 21	91
93	1.2.4.5.9		2 backpass	2 days	2 days	Thu Jun 22	Fri Jun 23	92
94	1.2.4.5.10		5 Fitup	1 day	1 day	Sat Jun 24	Sat Jun 24	93
95	1.2.4.5.11		4 Welding	1 day	1 day	Sun Jun 25	Sun Jun 25	94
96	1.2.4.5.12		3 Backpass	1 day	1 day	Mon Jun 26	Mon Jun 26	95
97	1.2.4.5.13		Anchor Chairs Fitup & Welding	1 day	1 day	Tue Jun 27	Tue Jun 27	96
98	1.2.4.5.14		6 Fitup	1 day	1 day	Wed Jun 28	Wed Jun 28	97
99	1.2.4.5.15		5 Welding	1 day	1 day	Thu Jun 29	Thu Jun 29	98
100	1.2.4.5.16		4 Backpass	1 day	1 day	Fri Jun 30	Fri Jun 30	99
101	1.2.4.5.17		7 Fitup	4 days	4 days	Sat Jul 1	Tue Jul 4	100
102	1.2.4.5.18		6 Welding	3 days	3 days	Wed Jul 5	Fri Jul 7	101
103	1.2.4.5.19		5 backpass	1 day	1 day	Sat Jul 8	Sat Jul 8	102
104	1.2.4.5.20		8 Fitup	4 days	4 days	Sun Jul 9	Wed Jul 12	103
105	1.2.4.5.21		7 Welding	5 days	5 days	Thu Jul 13	Mon Jul 17	104
106	1.2.4.5.22		6 Backpass	2 days	2 days	Tue Jul 18	Wed Jul 19	105
107	1.2.4.5.23		9 Fitup	3 days	3 days	Thu Jul 20	Sat Jul 22	106
108	1.2.4.5.24		8 Welding	3 days	3 days	Sun Jul 23	Tue Jul 25	107
109	1.2.4.5.25		7 Backpass	1 day	1 day	Wed Jul 26	Wed Jul 26	108
110	1.2.4.5.26		8 backpass	2 days	2 days	Thu Jul 27	Fri Jul 28	109
111	1.2.4.5.27		9 welding	3 days	3 days	Sat Jul 29	Mon Jul 31	110
112	1.2.4.5.28		9 Backpass	6 days	6 days	Tue Aug 1	Sun Aug 6	111
113	1.2.4.6		Center Column	5 days	5 days	Mon Aug 7	Fri Aug 11	
114	1.2.4.6.1		Column base	3 days	3 days	Mon Aug 7	Wed Aug 9	112
115	1.2.4.6.2		Column fab+Drum	1 day	1 day	Thu Aug 10	Thu Aug 10	114

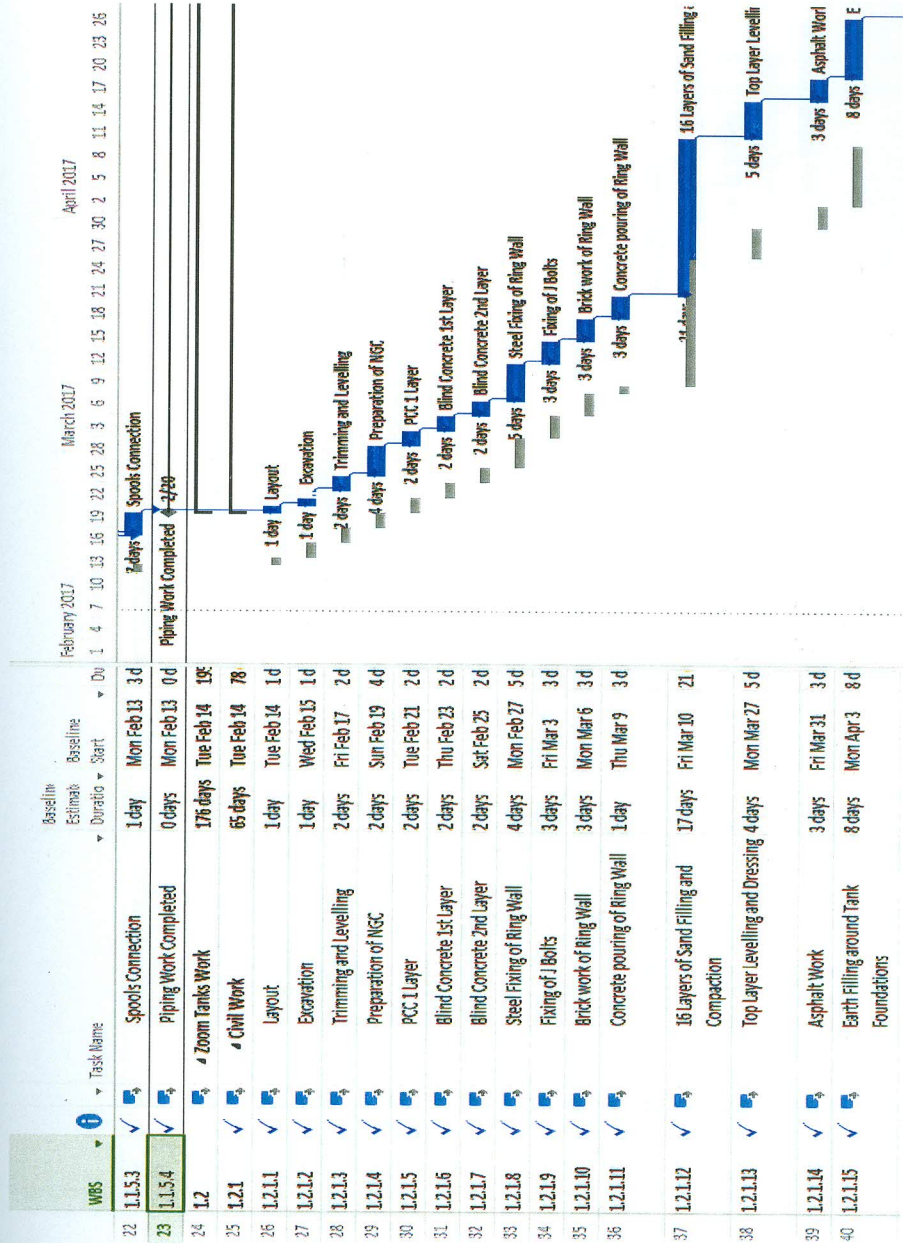
ID	WBS	Task Mo	Task Name	Duration	Baseline Estimated Duration	Start	Finish	Predecessors
116	1.2.4.6.3	→	Rafter Installation	1 day	1 day	Fri Aug 11	Fri Aug 11	115
117	1.2.4.7	→	Roof laying	13 days	13 days	Sat Aug 12	Thu Aug 24	
118	1.2.4.7.1	→	FIT UP	1 day	1 day	Sat Aug 12	Sat Aug 12	116
119	1.2.4.7.2	→	SHORT SEAM WELDING	3 days	3 days	Sun Aug 13	Tue Aug 15	118
120	1.2.4.7.3	→	LONG SEAM WELDING	3 days	3 days	Wed Aug 16	Fri Aug 18	119
121	1.2.4.7.4	→	T-WELDING	3 days	3 days	Sat Aug 19	Mon Aug 21	120
122	1.2.4.7.5	→	Curb Angle Welding	3 days	3 days	Tue Aug 22	Thu Aug 24	121
123	1.2.4.8	→	Shell Nozzles	2 days	2 days	Sun Aug 6	Mon Aug 7	112FF+1 day
124	1.2.4.9	→	Roof Nozzles	2 days	2 days	Sun Aug 13	Mon Aug 14	118
125	1.2.4.10	→	Stairs Erection	2 days	2 days	Mon Aug 7	Tue Aug 8	112FF+2 days
126	1.2.4.11	→	Water Spray Nozzle	2 days	2 days	Tue Aug 15	Wed Aug 16	124
127	1.2.4.12	→	Mechanical Work Completed	0 days	0 days	Wed Aug 16	Wed Aug 16	126
128	1.2.4.13	→	Pneumatic test	2 days	2 days	Fri Aug 25	Sat Aug 26	126,122
129	1.2.4.14	→	Hydro Test	4 days	4 days	Sun Aug 27	Wed Aug 30	128
130	1.2.4.15	→	Testing Completed	0 days	0 days	Wed Aug 30	Wed Aug 30	129
131	1.2.4.16	→	Paint	3 days	3 days	Thu Aug 31	Sat Sep 2	129
132	1.2.4.17	→	Piping and Tank Connection	4 days	4 days	Thu Aug 31	Sun Sep 3	130,23

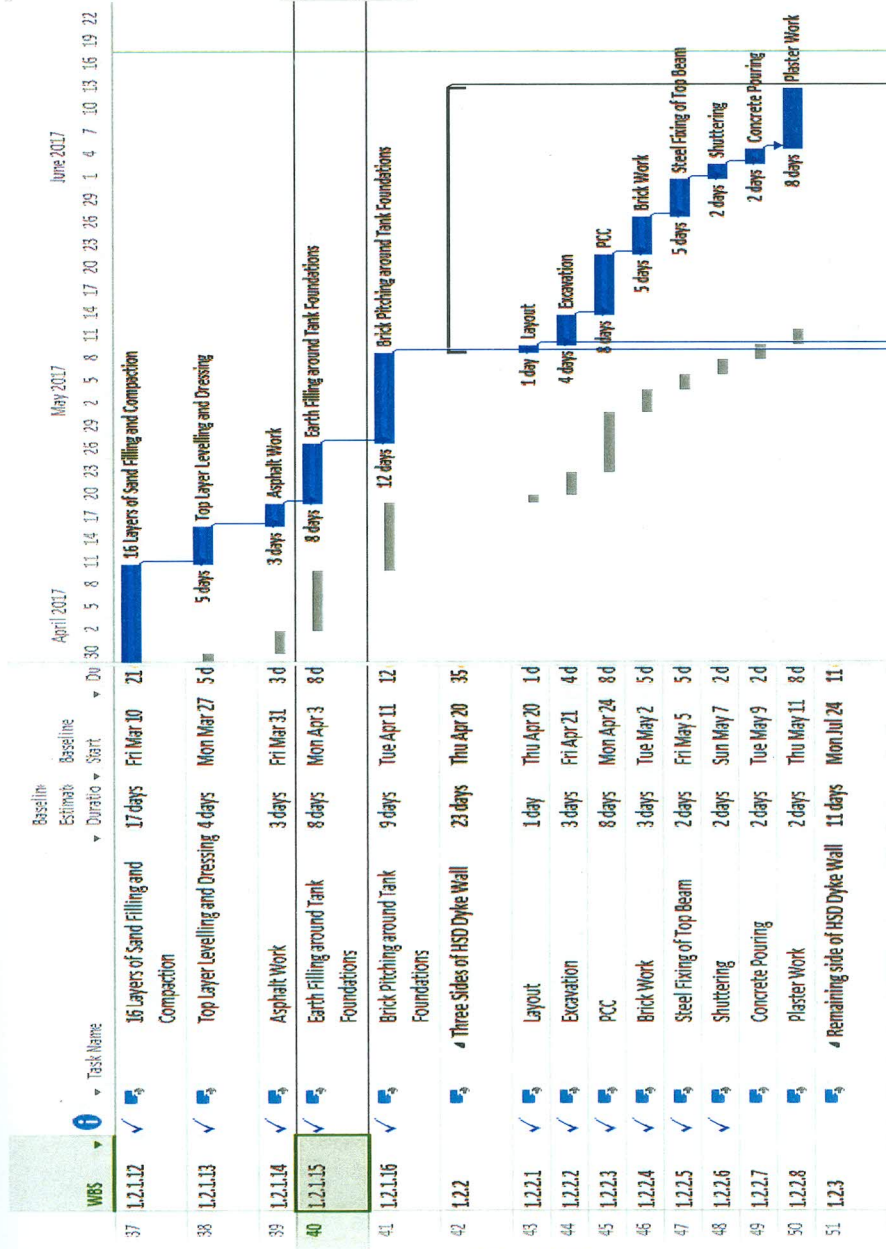
7.2. Resource Sheet

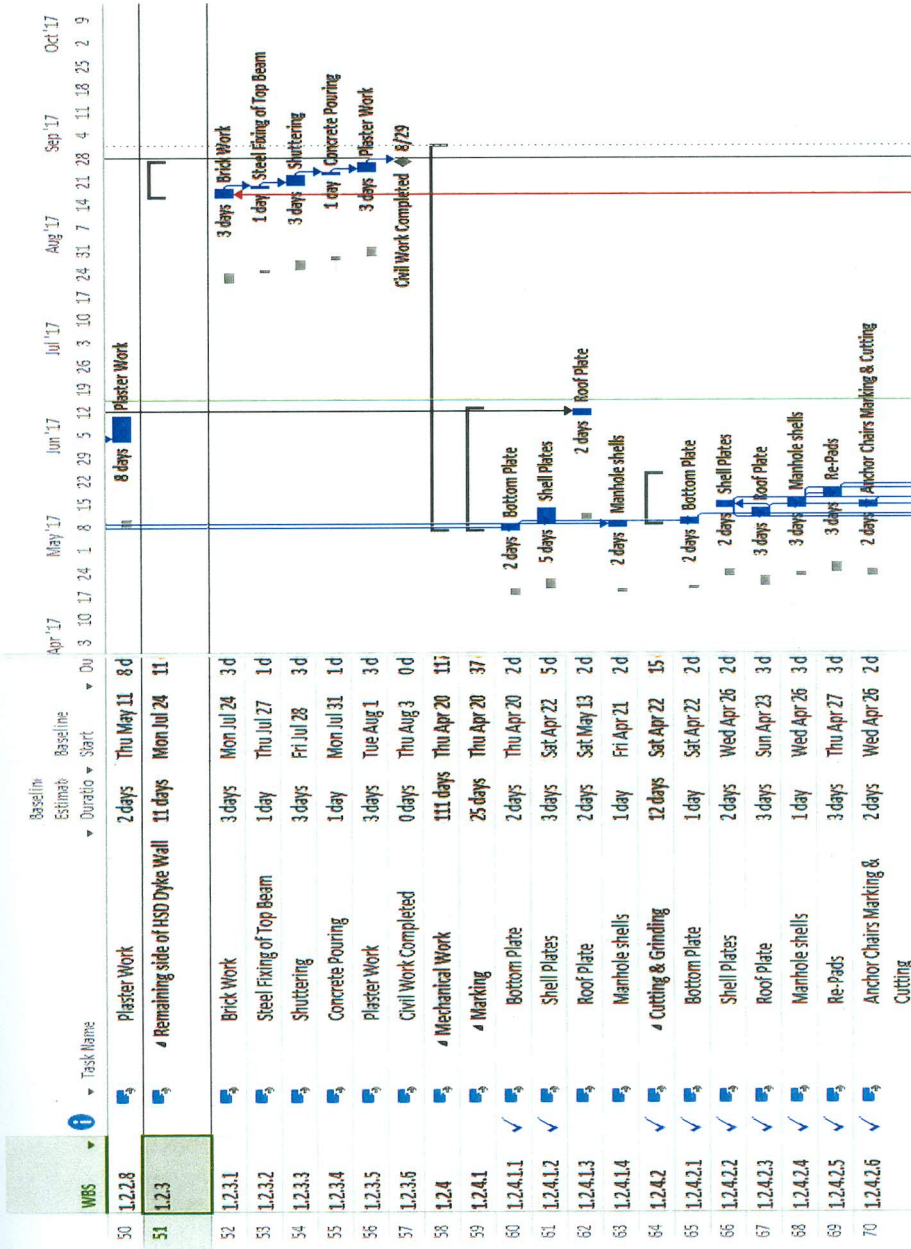
	Resource Name	Type	Initials	Max.	Std. Rate	Qty. Rate	Cost/Use	Accrue	Base Calendar
1	Surveyor	Work	S	200%	Rs30,000.00/mon	Rs0.00/hr	Rs0.00	Prorated	Project Calendar
2	Mechanical Fitter	Work	M	800%	Rs22,000.00/mon	Rs0.00/hr	Rs0.00	Prorated	Project Calendar
3	Helper	Work	H	1,200%	Rs18,000.00/mon	Rs0.00/hr	Rs0.00	Prorated	Project Calendar
4	Painter	Work	P	600%	Rs22,000.00/mon	Rs0.00/hr	Rs0.00	Prorated	Project Calendar
5	Mason	Work	M	700%	Rs1,000.00/day	Rs150.00/hr	Rs0.00	Prorated	Project Calendar
6	Labourer	Work	L	1,000%	Rs700.00/day	Rs100.00/hr	Rs0.00	Prorated	Project Calendar
7	Crane	Work	C	200%	Rs5,000.00/day	Rs0.00/hr	Rs0.00	Prorated	Project Calendar
8	Welder	Work	W	500%	Rs1,200.00/day	Rs0.00/hr	Rs0.00	Prorated	Project Calendar
9	Excavator	Work	E	100%	Rs4,000.00/day	Rs0.00/hr	Rs0.00	Prorated	Project Calendar
10	Mixer Machine	Work	M	200%	Rs3,000.00/day	Rs0.00/hr	Rs0.00	Prorated	Project Calendar
11	Jumpey	Work	J	200%	Rs1,500.00/day	Rs0.00/hr	Rs0.00	Prorated	Project Calendar
12	Construction Cost	Cost	C					Start	
13	Mechanical Cost	Cost	M					Start	

7.3. Project Schedule



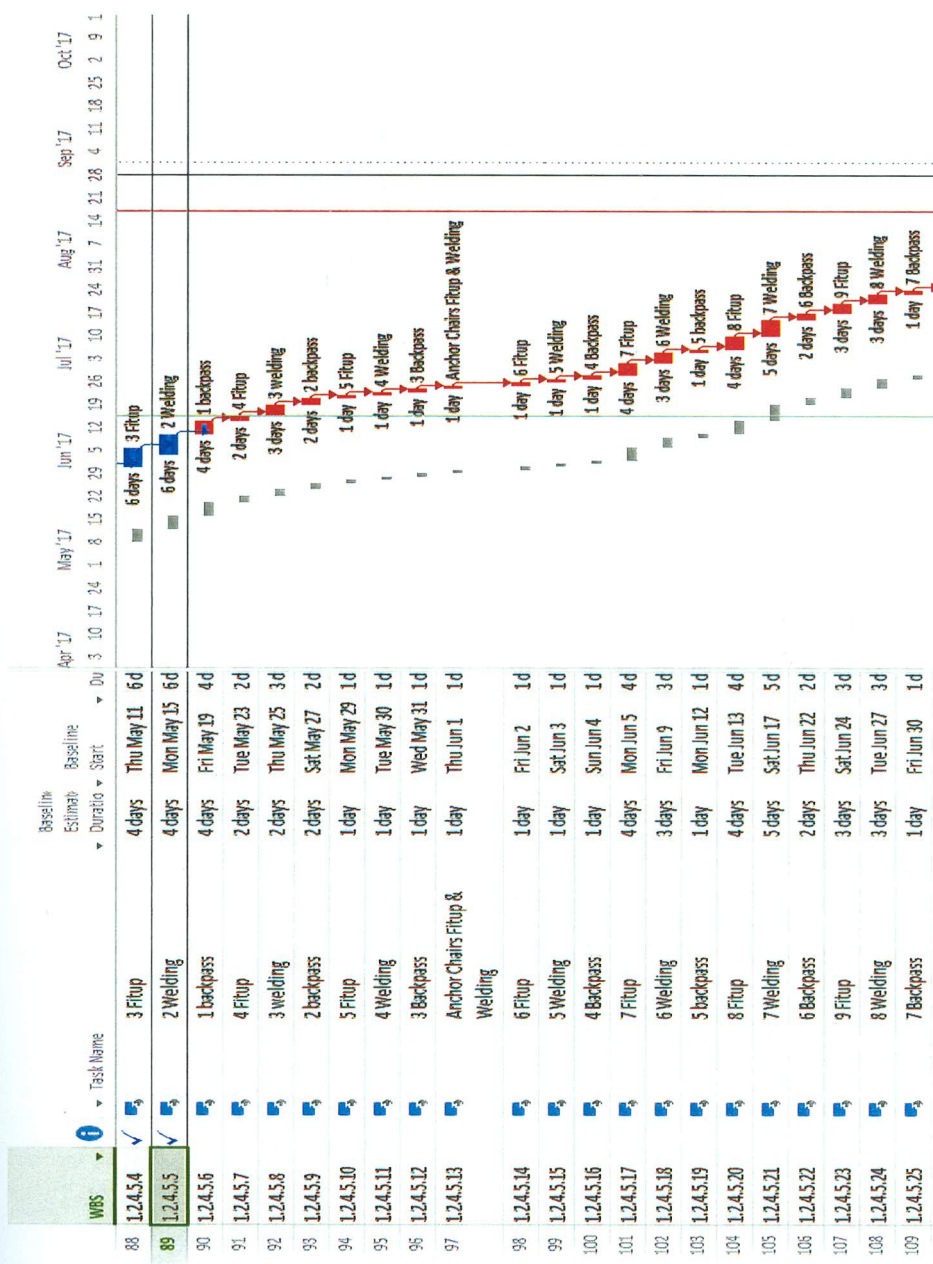


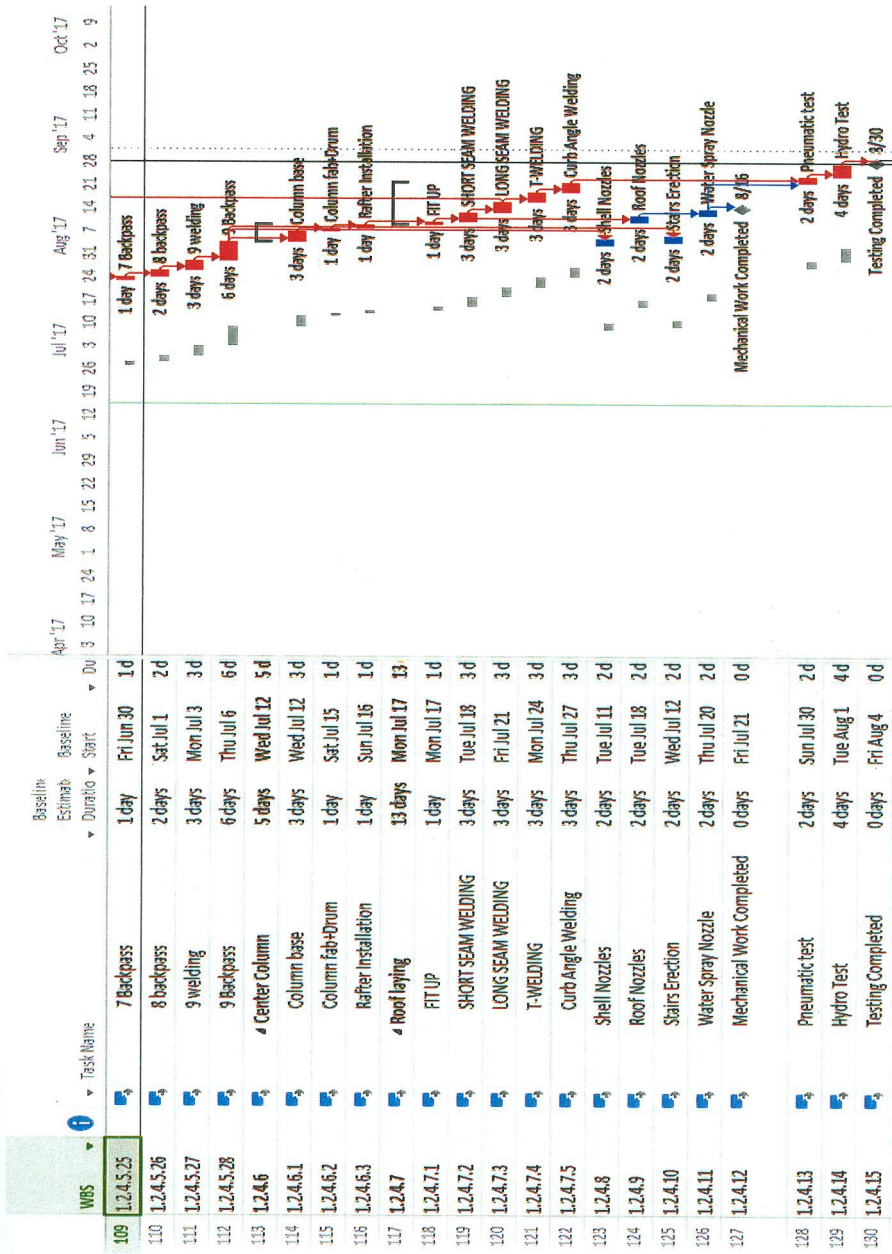


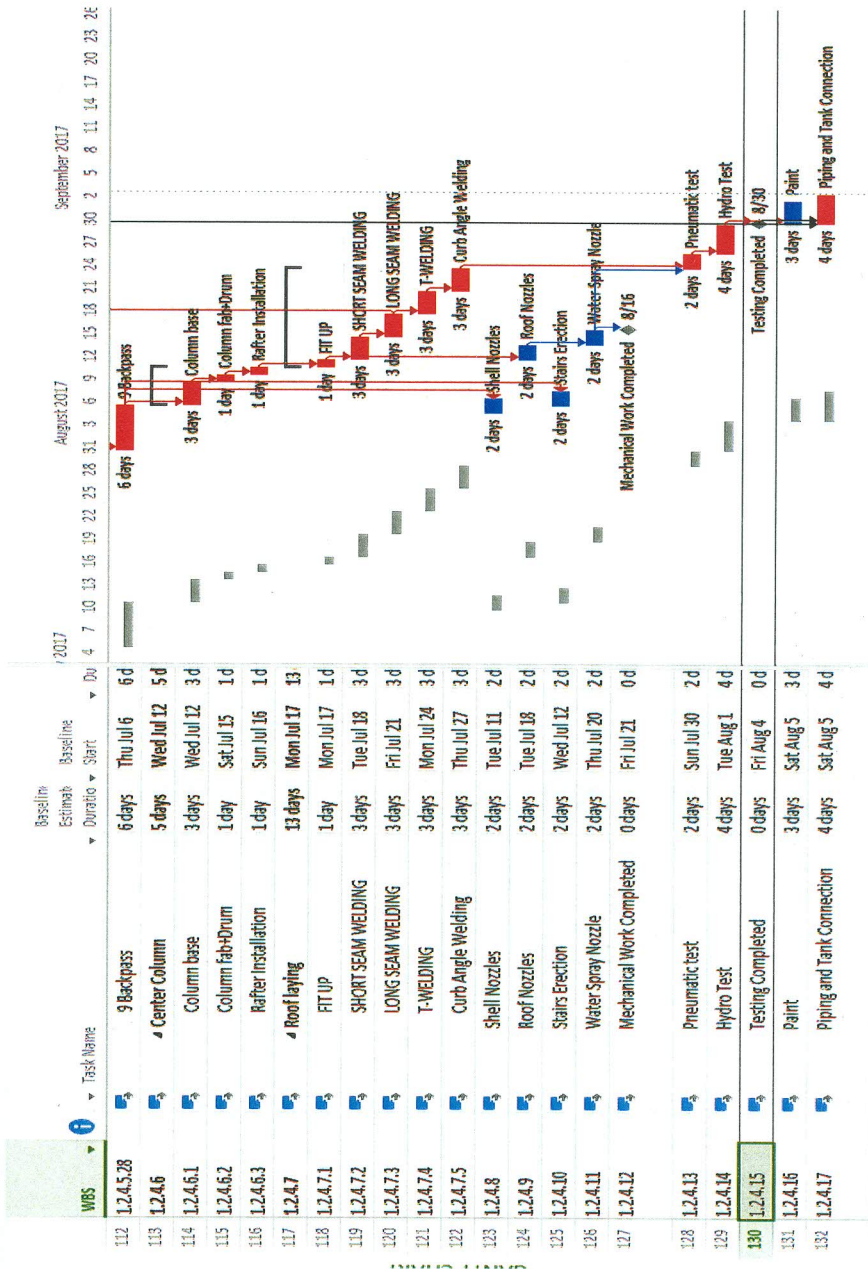


WBS	Task Name	Duration	Baseline Estimate															
			Start	End	Apr '17	May '17	Jun '17	Jul '17	Aug '17	Sep '17	Oct '17							
69	1.2.4.2.5 ✓ Re-Pads	3 days	Thu Apr 27	3 d														
70	1.2.4.2.6 ✓ Anchor Chairs Marking & Cutting	2 days	Wed Apr 26	2 d														
71	1.2.4.2.7 ✓ Barter Cutting & Grinding	2 days	Fri Apr 28	2 d														
72	1.2.4.2.8 ✓ Shell Nozzles	4 days	Fri Apr 28	4 d														
73	1.2.4.2.9 ✓ Roof Nozzles	3 days	Wed Apr 26	3 d														
74	1.2.4.2.10 ✓ Stairs	4 days	Sun Apr 30	4 d														
75	1.2.4.3 ✓ Rolling	6 days	Wed Apr 26	12														
76	1.2.4.3.1 ✓ Shell Plates	2 days	Fri Apr 28	2 d														
77	1.2.4.3.2 ✓ Manholes shells+Repads	2 days	Sat Apr 29	6 d														
78	1.2.4.3.3 ✓ Curb Angle Rolling	2 days	Wed Apr 26	2 d														
79	1.2.4.4 ✓ Bottom laying	7 days	Sun Apr 23	8 d														
80	1.2.4.4.1 ✓ FIT UP	1 day	Sun Apr 23	1 d														
81	1.2.4.4.2 ✓ SHORT SEAM WELDING	1 day	Mon Apr 24	4 d														
82	1.2.4.4.3 ✓ LONG SEAM WELDING	1 day	Tue Apr 25	1 d														
83	1.2.4.4.4 ✓ T-WELDING	4 days	Wed Apr 26	4 d														
84	1.2.4.5 ✓ Shell erection	73 days	Sun Apr 30	77														
85	1.2.4.5.1 ✓ 1 Fitup	3 days	Sun Apr 30	4 d														
86	1.2.4.5.2 ✓ 2 Fitup	4 days	Wed May 3	4 d														
87	1.2.4.5.3 ✓ 1 Welding	4 days	Sun May 7	4 d														
88	1.2.4.5.4 ✓ 3 Fitup	4 days	Thu May 11	6 d														
89	1.2.4.5.5 ✓ 2 Welding	4 days	Mon May 15	6 d														

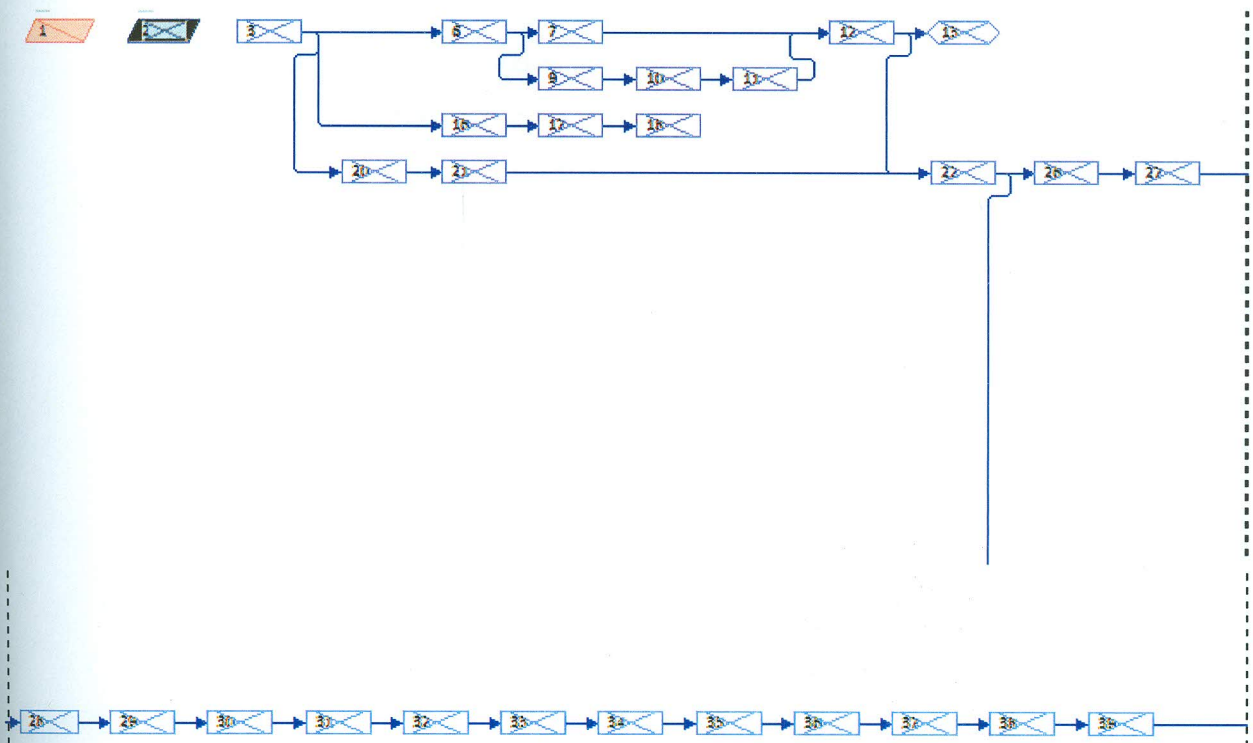
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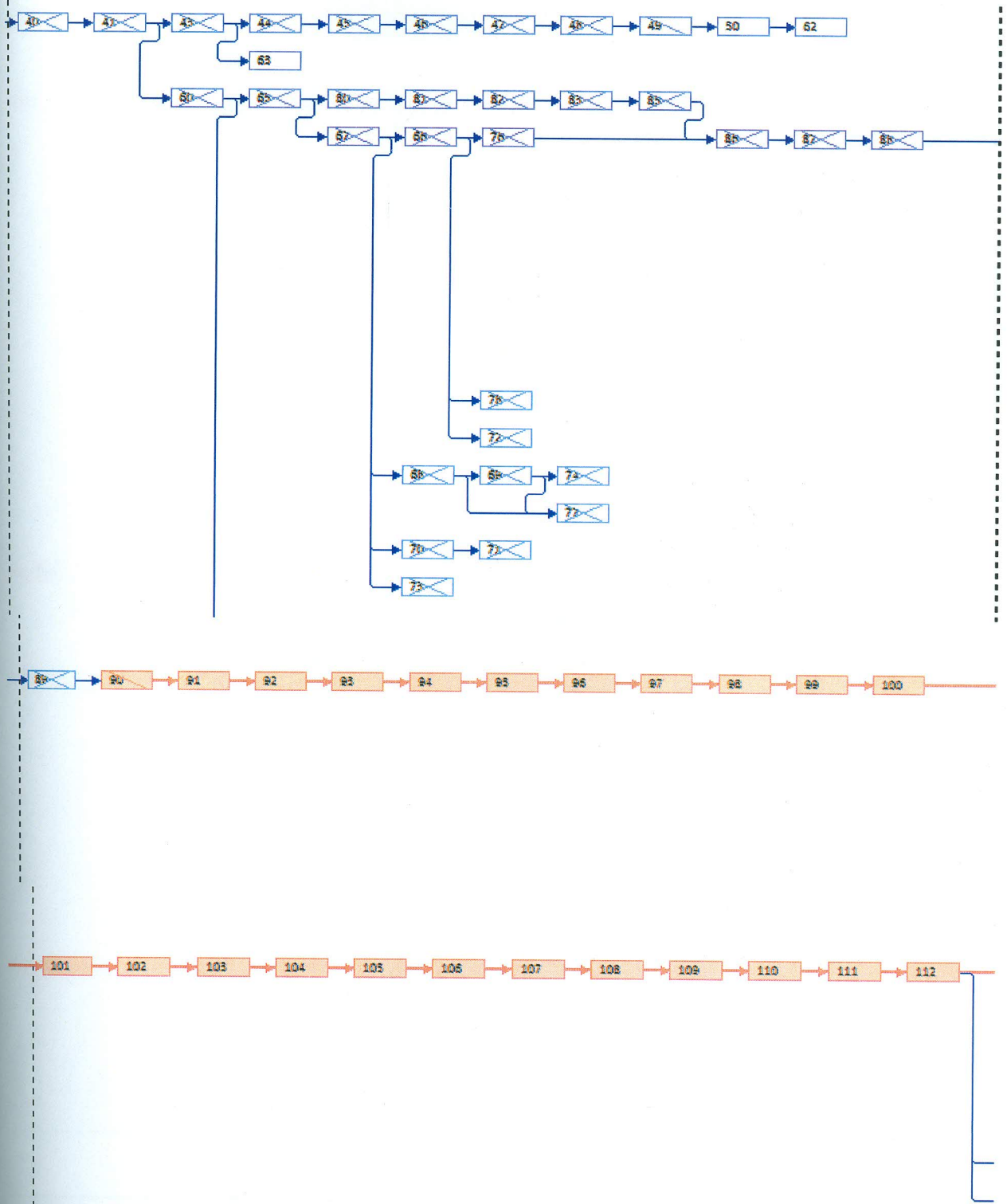


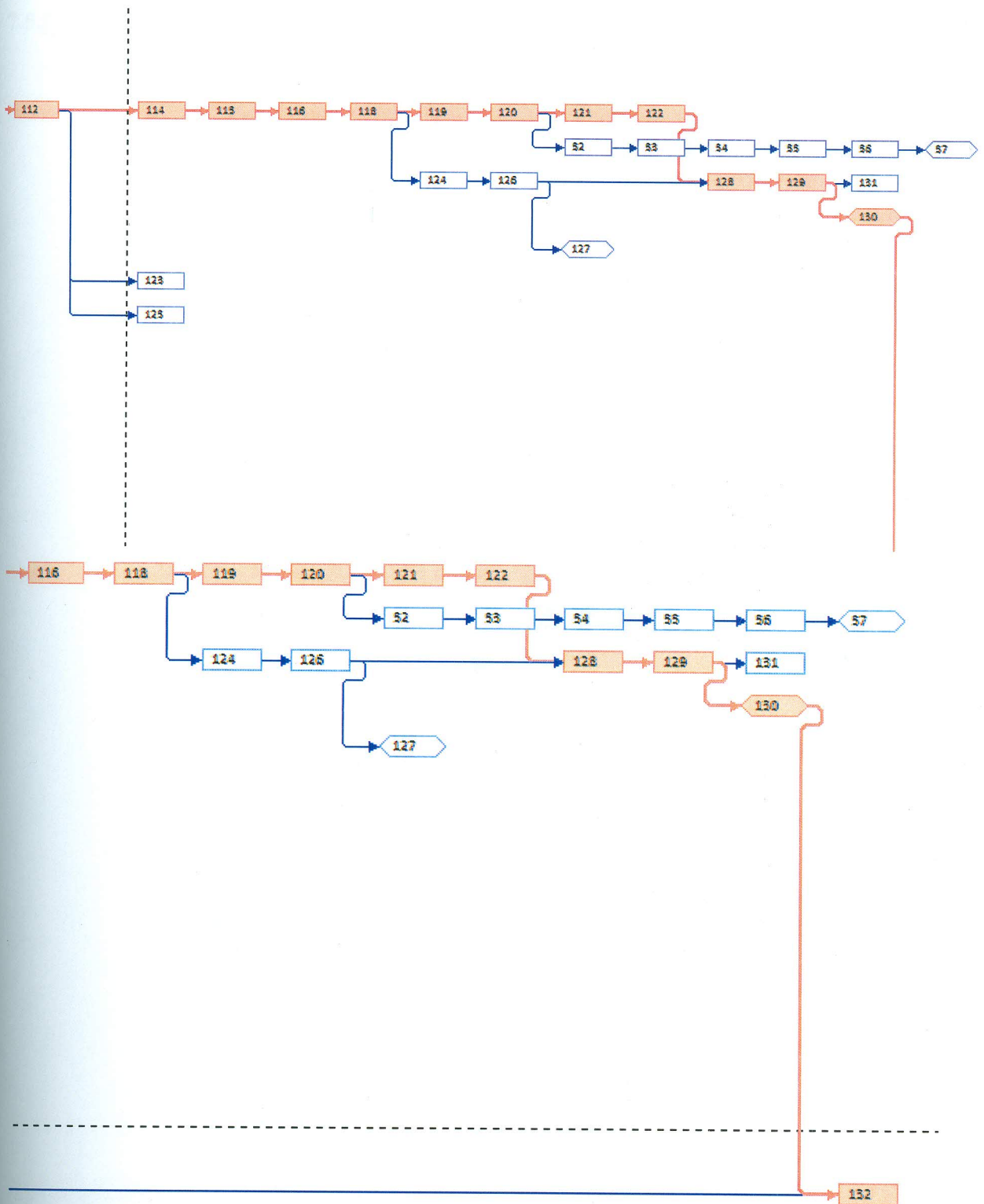




7.4. Network Diagram







7.5. Milestone List

WBS	Task Name	Duration	Start	Qtr													
				2016	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017		
				Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
1	Zoom Depot Project	182 days	Wed Feb 8														
2	Zoom Piping Work	6 days	Wed Feb 8														
13	Piping Pre Work Completed	0 days	Sun Feb 12														
19	Above the ground Piping	5 days	Thu Feb 9														
23	Piping Work Completed	0 days	Mon Feb 13														
24	Zoom Tanks Work	176 days	Tue Feb 14														
51	Remaining side of HSD Dyke Wall	11 days	Mon Jul 24														
57	Civil Work Completed	0 days	Thu Aug 3														
58	Mechanical Work	111 days	Thu Apr 20														
127	Mechanical Work Completed	0 days	Fri Jul 21														
130	Testing Completed	0 days	Fri Aug 4														

Piping Pre Work Completed ◆ 2/17

Piping Work Completed ◆ 2/20

Civil Work Completed ◆ 8/29

Mechanical Work Completed ◆ 8/16

Testing Completed ◆ 8/30

7.6. Earned Value Management

Task Name	Planned Value - PV (Rs.)	Earned Value - EV (BCWP)	AC (ACWP)	SV	C	SI	CV	EAC	BAC	VAC
1 Zoom Depot Project	Rs1,710,326.67	Rs1,500,193.33	Rs1,916,793.33	Rs210,133.33	0.78	0.88	Rs416,600.00	4,807,186.23	11,859.33	(Rs7,565,326.90)
2 Zoom Piping Work	Rs83,666.67	Rs83,666.67	Rs182,600.00	Rs0.00	0.46	1	Rs98,933.33	Rs182,600.00	Rs3,666.67	(Rs98,933.33)
3 Layout	Rs1,000.00	Rs1,000.00	Rs1,000.00	Rs0.00	1	1	Rs0.00	Rs1,000.00	Rs1,000.00	Rs0.00
4 Piping Pre Work	Rs40,266.67	Rs40,266.67	Rs91,333.33	Rs0.00	0.44	1	Rs51,066.67	Rs91,333.33	Rs40,266.67	(Rs51,066.67)
5 Connection to Head	Rs8,066.67	Rs8,066.67	Rs11,000.00	Rs0.00	0.73	1	(Rs2,933.33)	Rs11,000.00	Rs8,066.67	(Rs2,933.33)
6 Connection with Pump	Rs2,933.33	Rs2,933.33	Rs5,866.67	Rs0.00	0.5	1	(Rs2,933.33)	Rs5,866.67	Rs2,933.33	(Rs2,933.33)
7 Flanging and Blinding	Rs5,133.33	Rs5,133.33	Rs5,133.33	Rs0.00	1	1	Rs0.00	Rs5,133.33	Rs5,133.33	Rs0.00
8 Preparation of Pipes	Rs32,200.00	Rs32,200.00	Rs80,333.33	Rs0.00	0.4	1	Rs48,133.33	Rs80,333.33	Rs2,200.00	(Rs48,133.33)
9 Wirebrush cleaning of F	Rs7,466.67	Rs7,466.67	Rs14,933.33	Rs0.00	0.5	1	(Rs7,466.67)	Rs14,933.33	Rs7,466.67	(Rs7,466.67)
10 Paint Work of Pipes	Rs4,400.00	Rs4,400.00	Rs13,200.00	Rs0.00	0.33	1	(Rs8,800.00)	Rs13,200.00	Rs4,400.00	(Rs8,800.00)
11 Epoxy of Pipes	Rs4,400.00	Rs4,400.00	Rs4,400.00	Rs0.00	1	1	Rs0.00	Rs4,400.00	Rs4,400.00	Rs0.00
12 Spool Preparation	Rs15,933.33	Rs15,933.33	Rs47,800.00	Rs0.00	0.33	1	Rs31,866.67	Rs47,800.00	Rs15,933.33	(Rs31,866.67)
13 Piping Pre Work Completed	Rs0.00	Rs0.00	Rs0.00	Rs0.00	0	0	Rs0.00	Rs0.00	Rs0.00	Rs0.00
14 Underground Piping	Rs19,966.67	Rs19,966.67	Rs42,466.67	Rs0.00	0.47	1	Rs22,500.00	Rs42,466.67	Rs19,966.67	(Rs22,500.00)
15 Preparation of Ground	Rs19,966.67	Rs19,966.67	Rs42,466.67	Rs0.00	0.47	1	Rs22,500.00	Rs42,466.67	Rs19,966.67	(Rs22,500.00)
16 Cutting	Rs4,966.67	Rs4,966.67	Rs4,966.67	Rs0.00	1	1	Rs0.00	Rs4,966.67	Rs4,966.67	Rs0.00
17 Excavation	Rs7,500.00	Rs7,500.00	Rs15,000.00	Rs0.00	0.5	1	(Rs7,500.00)	Rs15,000.00	Rs7,500.00	(Rs7,500.00)
18 Sleeves Formation	Rs7,500.00	Rs7,500.00	Rs22,500.00	Rs0.00	0.33	1	(Rs15,000.00)	Rs22,500.00	Rs7,500.00	(Rs15,000.00)
19 Above the ground Piping	Rs22,433.33	Rs22,433.33	Rs47,800.00	Rs0.00	0.47	1	Rs25,366.67	Rs47,800.00	Rs22,433.33	(Rs25,366.67)
20 Sleepers formation	Rs6,500.00	Rs6,500.00	Rs6,500.00	Rs0.00	1	1	Rs0.00	Rs6,500.00	Rs6,500.00	Rs0.00

Task Name	Planned Value - PV (RS/RS)		Earned Value - EV (RS/RS)		AC (RS/WP)		SV		C		CV		BAC		VAC	
	Value	PV	Value	EV	Value	WP	Value	WP	Value	WP	Value	WP	Value	WP	Value	WP
22 Spools Connection	Rs9,433.33	Rs9,433.33	Rs9,433.33	Rs9,433.33	Rs28,300.00	0.33	Rs0.00	0.33	1	(Rs18,866.67)	Rs28,300.00	Rs0.00	Rs5,433.33	(Rs18,866.67)	Rs0.00	Rs0.00
25 Piping Work Completed	Rs0.00	Rs0.00	Rs0.00	Rs0.00	Rs0.00	0	Rs0.00	0	0	Rs0.00	Rs0.00	Rs0.00	Rs0.00	Rs0.00	Rs0.00	Rs0.00
24 Zoom Tanks Work	Rs1,626,660.00	Rs1,416,526.67	Rs1,734,193.33	Rs210,133.33	0.82	0.87	Rs0.00	0.83	1	(Rs17,666.67)	Rs33,248,683.67	Rs27,158,192.67	Rs6,090,491.01	(Rs18,866.67)	Rs0.00	Rs0.00
25 Civil Work	Rs894,000.00	Rs894,000.00	Rs1,078,000.00	Rs1,078,000.00	Rs13,000.00	0.83	Rs0.00	0.83	1	(Rs184,000.00)	Rs10,121,662.00	Rs8,393,999.33	Rs1,727,662.67	(Rs18,866.67)	Rs0.00	Rs0.00
26 Layout	Rs13,000.00	Rs13,000.00	Rs13,000.00	Rs13,000.00	Rs13,000.00	1	Rs0.00	1	1	Rs0.00	Rs13,000.00	Rs13,000.00	Rs0.00	Rs0.00	Rs0.00	Rs0.00
27 Excavation	Rs13,000.00	Rs13,000.00	Rs13,000.00	Rs13,000.00	Rs13,000.00	1	Rs0.00	1	1	Rs0.00	Rs7,512,999.33	Rs7,512,999.33	Rs0.00	Rs0.00	Rs0.00	Rs0.00
28 Trimming and Levelling	Rs26,000.00	Rs26,000.00	Rs26,000.00	Rs26,000.00	Rs26,000.00	1	Rs0.00	1	1	Rs0.00	Rs26,000.00	Rs26,000.00	Rs0.00	Rs0.00	Rs0.00	Rs0.00
29 Preparation of NGC	Rs26,000.00	Rs26,000.00	Rs26,000.00	Rs26,000.00	Rs52,000.00	0.5	Rs0.00	0.5	1	(Rs26,000.00)	Rs52,000.00	Rs26,000.00	Rs26,000.00	(Rs26,000.00)	Rs0.00	Rs0.00
30 PCC 1 Layer	Rs32,000.00	Rs32,000.00	Rs32,000.00	Rs32,000.00	Rs32,000.00	1	Rs0.00	1	1	Rs0.00	Rs32,000.00	Rs32,000.00	Rs0.00	Rs0.00	Rs0.00	Rs0.00
31 Blind Concrete 1st Layer	Rs32,000.00	Rs32,000.00	Rs32,000.00	Rs32,000.00	Rs32,000.00	1	Rs0.00	1	1	Rs0.00	Rs52,000.00	Rs32,000.00	Rs20,000.00	Rs0.00	Rs0.00	Rs0.00
32 Blind Concrete 2nd Layer	Rs32,000.00	Rs32,000.00	Rs32,000.00	Rs32,000.00	Rs32,000.00	1	Rs0.00	1	1	Rs0.00	Rs32,000.00	Rs32,000.00	Rs0.00	Rs0.00	Rs0.00	Rs0.00
33 Steel Fixing of Ring Wall	Rs52,000.00	Rs52,000.00	Rs52,000.00	Rs52,000.00	Rs65,000.00	0.8	Rs0.00	0.8	1	(Rs13,000.00)	Rs65,000.00	Rs52,000.00	Rs13,000.00	(Rs13,000.00)	Rs0.00	Rs0.00
34 Fixing of J Bolts	Rs39,000.00	Rs39,000.00	Rs39,000.00	Rs39,000.00	Rs39,000.00	1	Rs0.00	1	1	Rs0.00	Rs39,000.00	Rs39,000.00	Rs0.00	Rs0.00	Rs0.00	Rs0.00
35 Brick work of Ring Wall	Rs39,000.00	Rs39,000.00	Rs39,000.00	Rs39,000.00	Rs39,000.00	1	Rs0.00	1	1	Rs0.00	Rs39,000.00	Rs39,000.00	Rs0.00	Rs0.00	Rs0.00	Rs0.00
36 Concrete pouring of Ring Wall	Rs16,000.00	Rs16,000.00	Rs16,000.00	Rs16,000.00	Rs57,000.00	0.28	Rs0.00	0.28	1	(Rs41,000.00)	Rs57,000.00	Rs16,000.00	Rs41,000.00	(Rs41,000.00)	Rs0.00	Rs0.00
37 16 Layers of Sand Filling and Compaction	Rs221,000.00	Rs221,000.00	Rs221,000.00	Rs221,000.00	Rs273,000.00	0.81	Rs0.00	0.81	1	(Rs52,000.00)	Rs273,000.00	Rs221,000.00	Rs52,000.00	(Rs52,000.00)	Rs0.00	Rs0.00
38 Top Layer Levelling and Dressing	Rs52,000.00	Rs52,000.00	Rs52,000.00	Rs52,000.00	Rs65,000.00	0.8	Rs0.00	0.8	1	(Rs13,000.00)	Rs65,000.00	Rs52,000.00	Rs13,000.00	(Rs13,000.00)	Rs0.00	Rs0.00

Task Name	Planned Value - PV (B/C/W/F)		Earned Value - EV (B/C/W/F)		AC (B/C/W/P)	SV	C	SI	CV	EAC	BAC	VAC
	Rs	0.00	Rs	0.00								
37 16 Layers of Sand Filling and Compaction	Rs221,000.00	Rs221,000.00	Rs273,000.00	Rs273,000.00	Rs273,000.00	Rs52,000.00	0.81	1	(Rs52,000.00)	Rs273,000.00	Rs221,000.00	(Rs52,000.00)
38 Top Layer Levelling and Dressing	Rs52,000.00	Rs52,000.00	Rs65,000.00	Rs65,000.00	Rs65,000.00	Rs13,000.00	0.8	1	(Rs13,000.00)	Rs65,000.00	Rs52,000.00	(Rs13,000.00)
39 Asphalt Work	Rs48,000.00	Rs48,000.00	Rs48,000.00	Rs48,000.00	Rs48,000.00	Rs0.00	1	1	Rs0.00	Rs48,000.00	Rs48,000.00	Rs0.00
40 Earth Filling around Tank Foundations	Rs136,000.00	Rs136,000.00	Rs136,000.00	Rs136,000.00	Rs136,000.00	Rs0.00	1	1	Rs0.00	Rs136,000.00	Rs136,000.00	Rs0.00
41 Brick Pitching around Tank Foundations	Rs117,000.00	Rs117,000.00	Rs156,000.00	Rs156,000.00	Rs156,000.00	Rs39,000.00	0.75	1	(Rs39,000.00)	Rs156,000.00	Rs117,000.00	(Rs39,000.00)
42 Three Sides of HSD Dyke Wall	Rs299,000.00	Rs267,800.00	Rs345,800.00	Rs345,800.00	Rs345,800.00	(Rs31,200.00)	0.77	0.9	(Rs78,000.00)	Rs386,087.70	Rs299,000.00	(Rs87,087.70)
43 Layout	Rs13,000.00	Rs13,000.00	Rs13,000.00	Rs13,000.00	Rs13,000.00	Rs0.00	1	1	Rs0.00	Rs13,000.00	Rs13,000.00	Rs0.00
44 Excavation	Rs39,000.00	Rs39,000.00	Rs52,000.00	Rs52,000.00	Rs52,000.00	Rs13,000.00	0.75	1	(Rs13,000.00)	Rs52,000.00	Rs39,000.00	(Rs13,000.00)
45 PCC	Rs104,000.00	Rs104,000.00	Rs104,000.00	Rs104,000.00	Rs104,000.00	Rs0.00	1	1	Rs0.00	Rs104,000.00	Rs104,000.00	Rs0.00
46 Brick Work	Rs39,000.00	Rs39,000.00	Rs65,000.00	Rs65,000.00	Rs65,000.00	Rs26,000.00	0.6	1	(Rs26,000.00)	Rs65,000.00	Rs39,000.00	(Rs26,000.00)
47 Steel Fixing of Top Beam	Rs26,000.00	Rs26,000.00	Rs65,000.00	Rs65,000.00	Rs65,000.00	Rs39,000.00	0.4	1	(Rs39,000.00)	Rs65,000.00	Rs26,000.00	(Rs39,000.00)
48 Shuttering	Rs26,000.00	Rs26,000.00	Rs26,000.00	Rs26,000.00	Rs26,000.00	Rs0.00	1	1	Rs0.00	Rs26,000.00	Rs26,000.00	Rs0.00
49 Concrete Pouring	Rs26,000.00	Rs20,800.00	Rs20,800.00	Rs20,800.00	Rs20,800.00	(Rs5,200.00)	1	0.3	(Rs5,200.00)	Rs26,000.00	Rs26,000.00	Rs0.00
50 Plaster Work	Rs26,000.00	Rs0.00	Rs0.00	Rs0.00	Rs0.00	Rs26,000.00	0	0	Rs26,000.00	Rs104,000.00	Rs26,000.00	(Rs78,000.00)
51 Remaining side of HSD Dyke Wall	Rs0.00	Rs0.00	Rs0.00	Rs0.00	Rs0.00	Rs0.00	0	0	Rs0.00	Rs143,000.00	Rs143,000.00	Rs0.00

Task Name	Planned Value - PV		Earned Value - EV (BCWP)		AC (ACWP)		CPI		SV	CPI	CV	EAC	BAC	VAC
	Value - PV	BCWS	Value - EV	BCWP	Value - AC	BCWP	CPI	CV						
51	Rs0.00	Rs0.00	Rs0.00	Rs0.00	Rs0.00	Rs0.00	0	0	Rs0.00	0	0	Rs143,000.00	Rs143,000.00	Rs0.00
▲ Remaining side of HSD Dyke Wall														
52	Rs0.00	Rs0.00	Rs0.00	Rs0.00	Rs0.00	Rs0.00	0	0	Rs0.00	0	0	Rs39,000.00	Rs39,000.00	Rs0.00
53	Rs0.00	Rs0.00	Rs0.00	Rs0.00	Rs0.00	Rs0.00	0	0	Rs0.00	0	0	Rs13,000.00	Rs13,000.00	Rs0.00
54	Rs0.00	Rs0.00	Rs0.00	Rs0.00	Rs0.00	Rs0.00	0	0	Rs0.00	0	0	Rs39,000.00	Rs39,000.00	Rs0.00
55	Rs0.00	Rs0.00	Rs0.00	Rs0.00	Rs0.00	Rs0.00	0	0	Rs0.00	0	0	Rs13,000.00	Rs13,000.00	Rs0.00
56	Rs0.00	Rs0.00	Rs0.00	Rs0.00	Rs0.00	Rs0.00	0	0	Rs0.00	0	0	Rs39,000.00	Rs39,000.00	Rs0.00
57	Rs0.00	Rs0.00	Rs0.00	Rs0.00	Rs0.00	Rs0.00	0	0	Rs0.00	0	0	Rs0.00	Rs0.00	Rs0.00
58	Rs433,660.00	Rs254,726.67	Rs310,393.33	Rs178,933.33	Rs310,393.33	Rs178,933.33	0.82	0.59	Rs124,726.67	Rs154,726.67	Rs254,726.67	Rs433,660.00	Rs433,660.00	Rs0.00
59	Rs32,266.67	Rs21,666.67	Rs30,333.33	Rs10,600.00	Rs30,333.33	Rs10,600.00	0.71	0.67	Rs21,666.67	Rs21,666.67	Rs32,266.67	Rs32,266.67	Rs32,266.67	Rs0.00
60	Rs8,666.67	Rs8,666.67	Rs8,666.67	Rs8,666.67	Rs8,666.67	Rs8,666.67	1	1	Rs0.00	0	0	Rs8,666.67	Rs8,666.67	Rs0.00
61	Rs13,000.00	Rs13,000.00	Rs13,000.00	Rs13,000.00	Rs13,000.00	Rs13,000.00	1	1	Rs0.00	0	0	Rs13,000.00	Rs13,000.00	Rs0.00
62	Rs6,266.67	Rs6,266.67	Rs6,266.67	Rs6,266.67	Rs6,266.67	Rs6,266.67	1	1	Rs0.00	0	0	Rs6,266.67	Rs6,266.67	Rs0.00
63	Rs4,333.33	Rs4,333.33	Rs4,333.33	Rs4,333.33	Rs4,333.33	Rs4,333.33	1	1	Rs0.00	0	0	Rs4,333.33	Rs4,333.33	Rs0.00
64	Rs48,333.33	Rs48,333.33	Rs48,333.33	Rs48,333.33	Rs48,333.33	Rs48,333.33	1	1	Rs0.00	0	0	Rs48,333.33	Rs48,333.33	Rs0.00
65	Rs1,933.33	Rs1,933.33	Rs1,933.33	Rs1,933.33	Rs1,933.33	Rs1,933.33	1	1	Rs0.00	0	0	Rs1,933.33	Rs1,933.33	Rs0.00
66	Rs3,866.67	Rs3,866.67	Rs3,866.67	Rs3,866.67	Rs3,866.67	Rs3,866.67	1	1	Rs0.00	0	0	Rs3,866.67	Rs3,866.67	Rs0.00
67	Rs5,800.00	Rs5,800.00	Rs5,800.00	Rs5,800.00	Rs5,800.00	Rs5,800.00	1	1	Rs0.00	0	0	Rs5,800.00	Rs5,800.00	Rs0.00
68	Rs1,933.33	Rs1,933.33	Rs1,933.33	Rs1,933.33	Rs1,933.33	Rs1,933.33	1	1	Rs0.00	0	0	Rs1,933.33	Rs1,933.33	Rs0.00
69	Rs5,800.00	Rs5,800.00	Rs5,800.00	Rs5,800.00	Rs5,800.00	Rs5,800.00	1	1	Rs0.00	0	0	Rs5,800.00	Rs5,800.00	Rs0.00

Task Name	Planned Value - PV	Earned Value - EV (BCWP)	AC (ACWP)	SV	CV	ZAC	BAC	VAC
69 Re-Pads	Rs5,800.00	Rs5,800.00	Rs5,800.00	Rs0.00	1	Rs0.00	Rs5,800.00	Rs0.00
70 Anchor Chairs Marking & Cutting	Rs3,866.67	Rs3,866.67	Rs3,866.67	Rs0.00	1	Rs0.00	Rs3,866.67	Rs0.00
71 Rafter Cutting & Grinding	Rs3,866.67	Rs3,866.67	Rs3,866.67	Rs0.00	1	Rs0.00	Rs3,866.67	Rs0.00
72 Shell Nozzles	Rs7,733.33	Rs7,733.33	Rs7,733.33	Rs0.00	1	Rs0.00	Rs7,733.33	Rs0.00
73 Roof Nozzles	Rs5,800.00	Rs5,800.00	Rs5,800.00	Rs0.00	1	Rs0.00	Rs5,800.00	Rs0.00
74 Stairs	Rs7,733.33	Rs7,733.33	Rs7,733.33	Rs0.00	1	Rs0.00	Rs7,733.33	Rs0.00
75 Rolling	Rs21,200.00	Rs21,200.00	Rs28,933.33	Rs0.00	0.73	(Rs7,733.33)	Rs21,200.00	(Rs7,733.33)
76 Shell Plates	Rs8,666.67	Rs8,666.67	Rs8,666.67	Rs0.00	1	Rs0.00	Rs8,666.67	Rs0.00
77 Mannole shells+Repads	Rs3,866.67	Rs3,866.67	Rs11,600.00	Rs0.00	0.33	(Rs7,733.33)	Rs3,866.67	(Rs7,733.33)
78 Curb Angle Rolling	Rs8,666.67	Rs8,666.67	Rs8,666.67	Rs0.00	1	Rs0.00	Rs8,666.67	Rs0.00
79 Bottom laying	Rs25,473.33	Rs25,473.33	Rs34,873.33	Rs0.00	0.73	(Rs9,400.00)	Rs25,473.33	(Rs9,400.00)
80 FIT UP	Rs4,333.33	Rs4,333.33	Rs4,333.33	Rs0.00	1	Rs0.00	Rs4,333.33	Rs0.00
81 SHORT SEAM WELDING	Rs3,733.33	Rs3,733.33	Rs13,133.33	Rs0.00	0.28	(Rs9,400.00)	Rs3,733.33	(Rs9,400.00)
82 LONG SEAM WELDING	Rs3,733.33	Rs3,733.33	Rs3,733.33	Rs0.00	1	Rs0.00	Rs3,733.33	Rs0.00
83 T-WELDING	Rs13,673.33	Rs13,673.33	Rs13,673.33	Rs0.00	1	Rs0.00	Rs13,673.33	Rs0.00
84 Shell erection	Rs306,386.67	Rs138,053.33	Rs162,120.00	Rs168,333.33	0.85	(Rs24,066.67)	Rs401,453.33	(Rs93,911.30)
85 I Fitup	Rs19,720.00	Rs19,720.00	Rs21,653.33	Rs0.00	0.91	(Rs1,933.33)	Rs19,720.00	(Rs1,933.33)

Task Name	Planned Value - PV	Earned Value - EV (BCWP)	AC (ACWP)	SV	C	S	CV	EAC	BAC	VAC	
85	1 Fitup	Rs19,720.00	Rs19,720.00	Rs21,633.33	Rs0.00	0.91	1	(Rs1,933.33)	Rs21,633.33	Rs19,720.00	(Rs1,933.33)
86	2 fitup	Rs26,933.33	Rs26,933.33	Rs26,933.33	Rs0.00	1	1	Rs0.00	Rs26,933.33	Rs26,933.33	Rs0.00
87	1 Welding	Rs26,933.33	Rs26,933.33	Rs26,933.33	Rs0.00	1	1	Rs0.00	Rs26,933.33	Rs26,933.33	Rs0.00
88	3 Fitup	Rs22,133.33	Rs22,133.33	Rs33,200.00	Rs0.00	0.67	1	(Rs11,066.67)	Rs33,200.00	Rs22,133.33	(Rs11,066.67)
89	2 Welding	Rs22,133.33	Rs22,133.33	Rs33,200.00	Rs0.00	0.67	1	(Rs11,066.67)	Rs33,200.00	Rs22,133.33	(Rs11,066.67)
90	1 backpass	Rs26,933.33	Rs20,200.00	Rs20,200.00	Rs6,733.33	1	0.75	Rs0.00	Rs26,933.33	Rs26,933.33	Rs0.00
91	4 Fitup	Rs13,466.67	Rs0.00	Rs0.00	Rs13,466.67	0	0	Rs0.00	Rs13,466.67	Rs13,466.67	Rs0.00
92	3 welding	Rs13,466.67	Rs0.00	Rs0.00	Rs13,466.67	0	0	Rs0.00	Rs20,200.00	Rs13,466.67	(Rs6,733.33)
93	2 backpass	Rs13,466.67	Rs0.00	Rs0.00	Rs13,466.67	0	0	Rs0.00	Rs13,466.67	Rs13,466.67	Rs0.00
94	5 Fitup	Rs6,733.33	Rs0.00	Rs0.00	Rs6,733.33	0	0	Rs0.00	Rs6,733.33	Rs6,733.33	Rs0.00
95	4 Welding	Rs6,733.33	Rs0.00	Rs0.00	Rs6,733.33	0	0	Rs0.00	Rs6,733.33	Rs6,733.33	Rs0.00
96	3 Backpass	Rs6,733.33	Rs0.00	Rs0.00	Rs6,733.33	0	0	Rs0.00	Rs6,733.33	Rs6,733.33	Rs0.00
97	Anchor Chairs Fitup & Welding	Rs6,733.33	Rs0.00	Rs0.00	Rs6,733.33	0	0	Rs0.00	Rs6,733.33	Rs6,733.33	Rs0.00
98	6 Fitup	Rs6,733.33	Rs0.00	Rs0.00	Rs6,733.33	0	0	Rs0.00	Rs6,733.33	Rs6,733.33	Rs0.00
99	5 Welding	Rs6,733.33	Rs0.00	Rs0.00	Rs6,733.33	0	0	Rs0.00	Rs6,733.33	Rs6,733.33	Rs0.00
100	4 Backpass	Rs6,733.33	Rs0.00	Rs0.00	Rs6,733.33	0	0	Rs0.00	Rs6,733.33	Rs6,733.33	Rs0.00
101	7 Fitup	Rs26,933.33	Rs0.00	Rs0.00	Rs26,933.33	0	0	Rs0.00	Rs26,933.33	Rs26,933.33	Rs0.00
102	6 Welding	Rs20,200.00	Rs0.00	Rs0.00	Rs20,200.00	0	0	Rs0.00	Rs20,200.00	Rs20,200.00	Rs0.00
103	5 backpass	Rs6,733.33	Rs0.00	Rs0.00	Rs6,733.33	0	0	Rs0.00	Rs6,733.33	Rs6,733.33	Rs0.00

Task Name	Planned Value: PV (BAC)	Earned Value: EV (BCWP)	AC (ACWP)	SV	C	S	CV	EAC	BAC	VAC
103	5 backpass	Rs6,733.33	Rs0.00	Rs0.00	(Rs6,733.33)	0	0	Rs0.00	Rs6,733.33	Rs0.00
104	8 Fitup	Rs20,200.00	Rs0.00	Rs0.00	(Rs20,200.00)	0	0	Rs0.00	Rs26,933.33	Rs0.00
105	7 Welding	Rs0.00	Rs0.00	Rs0.00	Rs0.00	0	0	Rs0.00	Rs33,666.67	Rs0.00
106	6 Backpass	Rs0.00	Rs0.00	Rs0.00	Rs0.00	0	0	Rs0.00	Rs13,466.67	Rs0.00
107	9 Fitup	Rs0.00	Rs0.00	Rs0.00	Rs0.00	0	0	Rs0.00	Rs20,200.00	Rs0.00
108	8 Welding	Rs0.00	Rs0.00	Rs0.00	Rs0.00	0	0	Rs0.00	Rs20,200.00	Rs0.00
109	7 Backpass	Rs0.00	Rs0.00	Rs0.00	Rs0.00	0	0	Rs0.00	Rs6,733.33	Rs0.00
110	8 backpass	Rs0.00	Rs0.00	Rs0.00	Rs0.00	0	0	Rs0.00	Rs13,466.67	Rs0.00
111	9 welding	Rs0.00	Rs0.00	Rs0.00	Rs0.00	0	0	Rs0.00	Rs20,200.00	Rs0.00
112	9 Backpass	Rs0.00	Rs0.00	Rs0.00	Rs0.00	0	0	Rs0.00	Rs40,400.00	Rs0.00
113	4 Center Column	Rs0.00	Rs0.00	Rs0.00	Rs0.00	0	0	Rs0.00	Rs30,066.67	Rs0.00
114	Column base	Rs0.00	Rs0.00	Rs0.00	Rs0.00	0	0	Rs0.00	Rs16,600.00	Rs0.00
115	Column fab+Drum	Rs0.00	Rs0.00	Rs0.00	Rs0.00	0	0	Rs0.00	Rs6,733.33	Rs0.00
116	Rafter Installation	Rs0.00	Rs0.00	Rs0.00	Rs0.00	0	0	Rs0.00	Rs6,733.33	Rs0.00
117	4 Roof laying	Rs0.00	Rs0.00	Rs0.00	Rs0.00	0	0	Rs0.00	Rs87,533.33	Rs0.00
118	FIT UP	Rs0.00	Rs0.00	Rs0.00	Rs0.00	0	0	Rs0.00	Rs6,733.33	Rs0.00
119	SHORT SEAM WELDING	Rs0.00	Rs0.00	Rs0.00	Rs0.00	0	0	Rs0.00	Rs20,200.00	Rs0.00
120	LONG SEAM WELDING	Rs0.00	Rs0.00	Rs0.00	Rs0.00	0	0	Rs0.00	Rs20,200.00	Rs0.00
121	T-WELDING	Rs0.00	Rs0.00	Rs0.00	Rs0.00	0	0	Rs0.00	Rs20,200.00	Rs0.00
122	Curb Angle Welding	Rs0.00	Rs0.00	Rs0.00	Rs0.00	0	0	Rs0.00	Rs20,200.00	Rs0.00

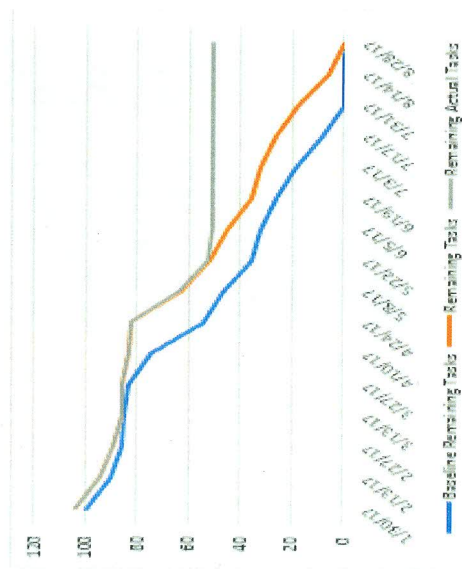
Task Name	Planned Value - PV (Actual)	Earned Value - EV (BCWP)	AC (ACWP)	SV	CV	SI	CV	EAC	BAC	VAC
118	Rs0.00	Rs0.00	Rs0.00	Rs0.00	Rs0.00	0	0	Rs0.00	Rs6,733.33	Rs0.00
119	Rs0.00	Rs0.00	Rs0.00	Rs0.00	Rs0.00	0	0	Rs0.00	Rs20,200.00	Rs0.00
120	Rs0.00	Rs0.00	Rs0.00	Rs0.00	Rs0.00	0	0	Rs0.00	Rs20,200.00	Rs0.00
121	Rs0.00	Rs0.00	Rs0.00	Rs0.00	Rs0.00	0	0	Rs0.00	Rs20,200.00	Rs0.00
122	Rs0.00	Rs0.00	Rs0.00	Rs0.00	Rs0.00	0	0	Rs0.00	Rs20,200.00	Rs0.00
123	Rs0.00	Rs0.00	Rs0.00	Rs0.00	Rs0.00	0	0	Rs0.00	Rs10,400.00	Rs0.00
124	Rs0.00	Rs0.00	Rs0.00	Rs0.00	Rs0.00	0	0	Rs0.00	Rs10,400.00	Rs0.00
125	Rs0.00	Rs0.00	Rs0.00	Rs0.00	Rs0.00	0	0	Rs0.00	Rs10,400.00	Rs0.00
126	Rs0.00	Rs0.00	Rs0.00	Rs0.00	Rs0.00	0	0	Rs0.00	Rs10,400.00	Rs0.00
127	Rs0.00	Rs0.00	Rs0.00	Rs0.00	Rs0.00	0	0	Rs0.00	Rs0.00	Rs0.00
128	Rs0.00	Rs0.00	Rs0.00	Rs0.00	Rs0.00	0	0	Rs0.00	Rs7,733.33	Rs0.00
129	Rs0.00	Rs0.00	Rs0.00	Rs0.00	Rs0.00	0	0	Rs0.00	Rs12,533.33	Rs0.00
130	Rs0.00	Rs0.00	Rs0.00	Rs0.00	Rs0.00	0	0	Rs0.00	Rs0.00	Rs0.00
131	Rs0.00	Rs0.00	Rs0.00	Rs0.00	Rs0.00	0	0	Rs0.00	Rs13,200.00	Rs0.00
132	Rs0.00	Rs0.00	Rs0.00	Rs0.00	Rs0.00	0	0	Rs0.00	Rs20,800.00	Rs0.00

Chapter 8 Project Reports

8.1. Burndown Report

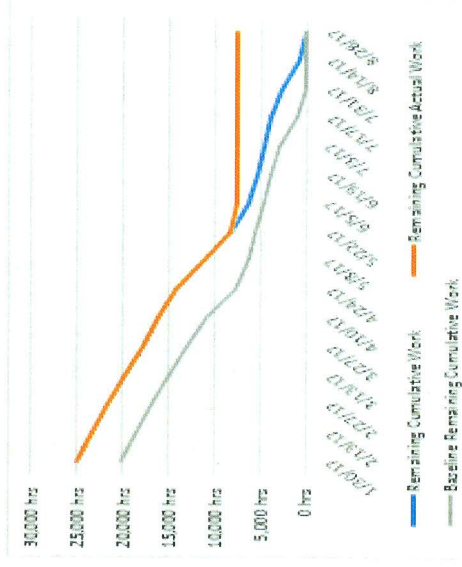
Wed Feb 8 - Sun Sep 3

BURNDOWN



TASK BURNDOWN

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



WORK BURNDOWN

Show 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?

8.2. Cost Overview Report

COST OVERVIEW

WED FEB 8 - SUN SEP 3

CDST

Rs28,767,868.67

REMAINING COST

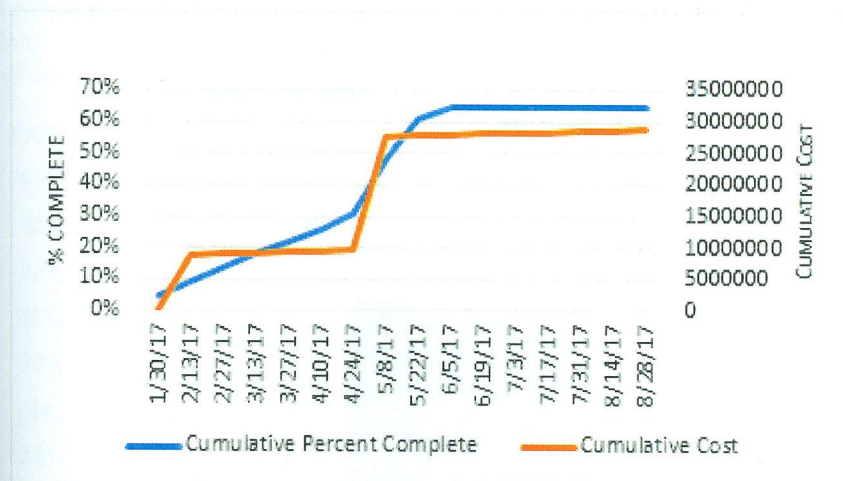
Rs26,849,728.67

% COMPLETE

65%

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

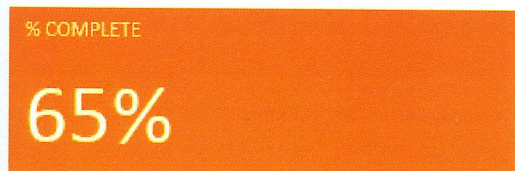
Cost status for top level tasks.

Name	Actual Cost	Remaining Cost	Baseline Cost	Cost	Cost Variance
Zoom Depot Project	Rs1,918,140.00	Rs26,849,728.67	Rs27,241,859.33	Rs28,767,868.67	Rs1,526,009.33

8.3. Project Overview Report

PROJECT OVERVIEW

WED FEB 8 - SUN SEP 3



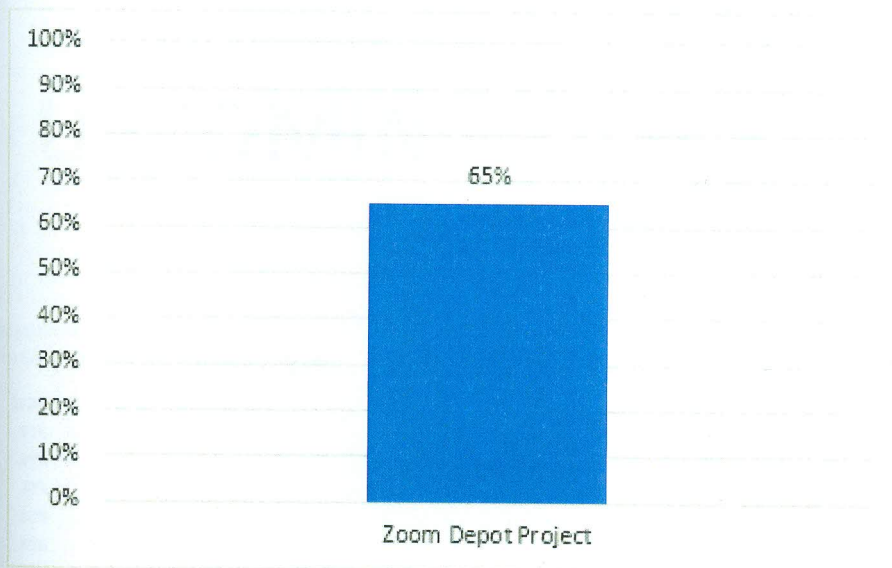
MILESTONES DUE

Milestones that are coming soon.

Name	Finish
Civil Work Completed	Tue Aug 29
Mechanical Work Completed	Wed Aug 16
Testing Completed	Wed Aug 30

% 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.

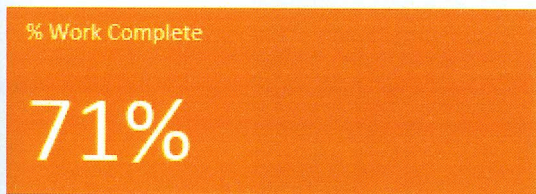


LATE TASKS

Tasks that are past due.

Name	Start	Finish	Duration	% Complete	Resource Names
Concrete Pouring	Sun Jun 4	Mon Jun 5	2 days	80%	Labourer[1,000%],Mason[600%]
Plaster Work	Tue Jun 6	Tue Jun 13	8 days	0%	Labourer[1,000%],Mason[600%]
Roof Plate	Wed Jun 14	Thu Jun 15	2 days	0%	Mechanical Fitter,Helper[200%],Welder
Manhole shells	Thu May 11	Fri May 12	2 days	0%	Mechanical Fitter,Helper[200%],Welder[200%]

8.4.Upcoming Tasks Report

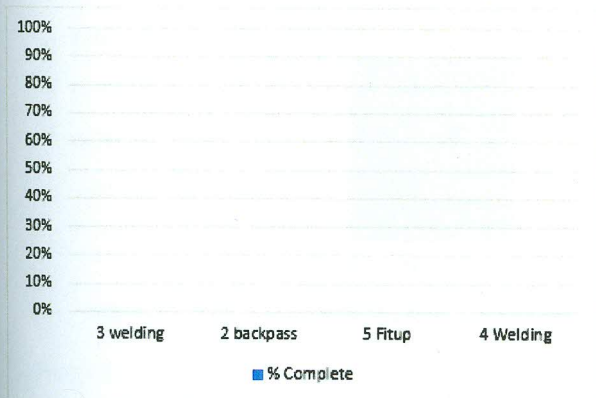


Wed Feb 8 - Sun Sep 3

UPCOMING TASKS

REMAINING TASKS

Status of remaining tasks that are due this week



TASKS STARTING SOON

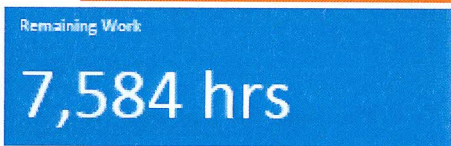
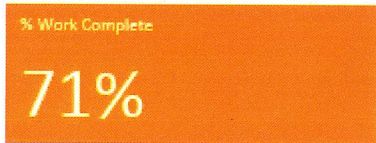
Status of tasks starting in the next week

Name	Resource Names	Start	Finish	Work
3 welding	Welder[400%],Mechanical Fitter,Helper[200%]	Mon Jun 19	Wed Jun 21	168 hrs
2 backpass	Welder[400%],Mechanical Fitter,Helper[200%]	Thu Jun 22	Fri Jun 23	112 hrs
5 Fitup	Welder[400%],Mechanical Fitter,Helper[200%]	Sat Jun 24	Sat Jun 24	56 hrs
4 Welding	Welder[400%],Mechanical Fitter,Helper[200%]	Sun Jun 25	Sun Jun 25	56 hrs

8.5. Project Work Overview Report

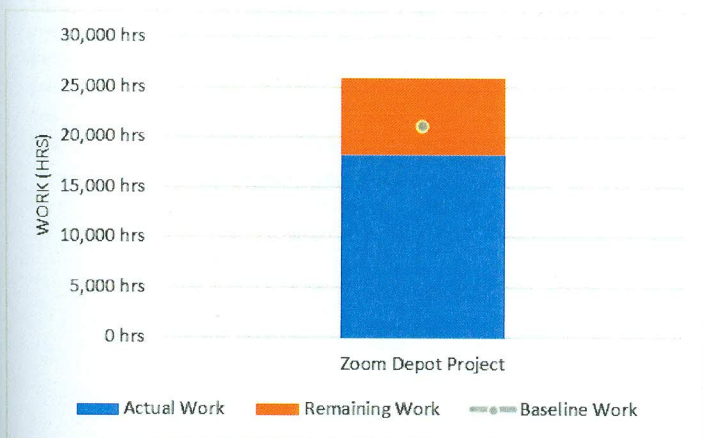
WORK BURNDOWN

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.

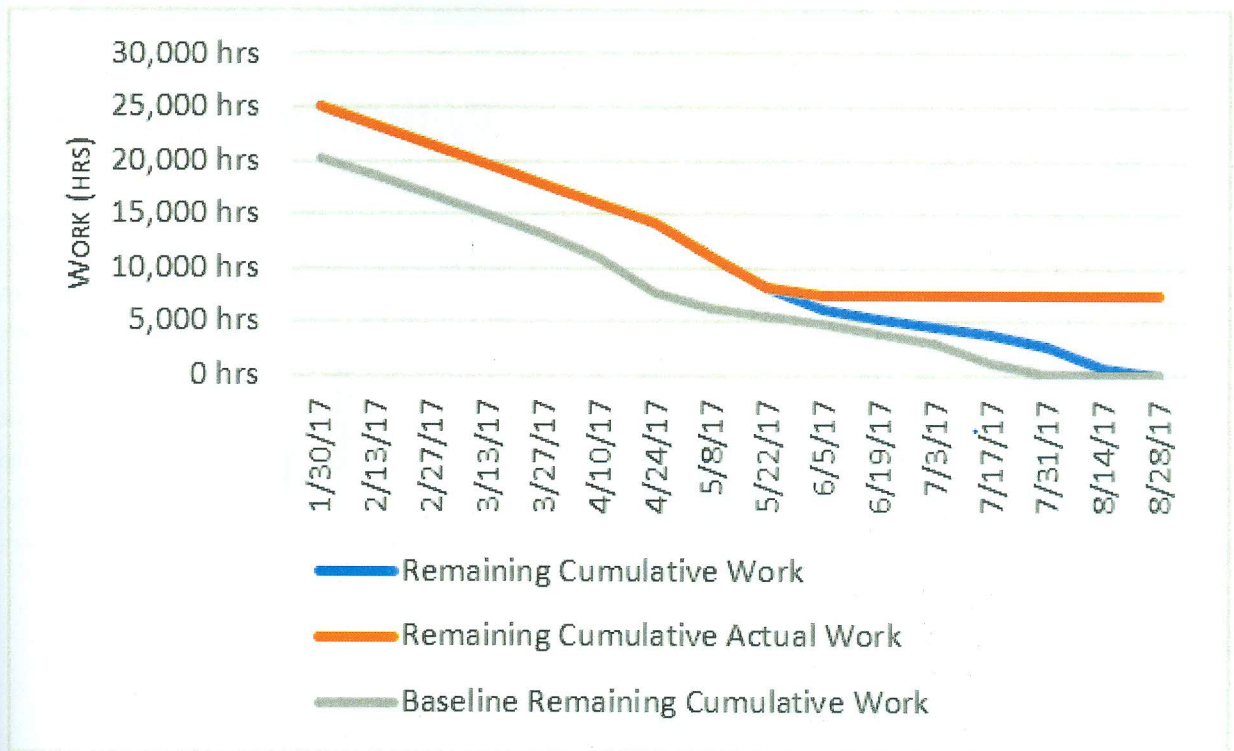


[Try setting a baseline](#)

WORK OVERVIEW



WORK STATS



8.6. Project Overallocated Resources Report

OVERALLOCATED RESOURCES

WORK STATUS

Work status for overallocated resources.



OVERALLOCATION

Surplus work assigned to overallocated resources. To resolve overallocations use

[Team Planner View](#)

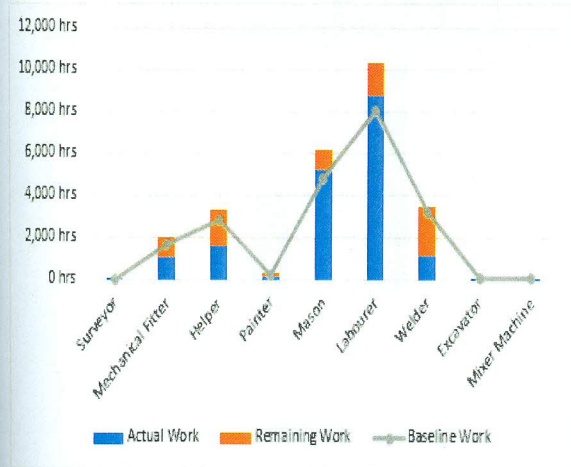


8.7. Project Resource Overview Report

RESOURCE OVERVIEW

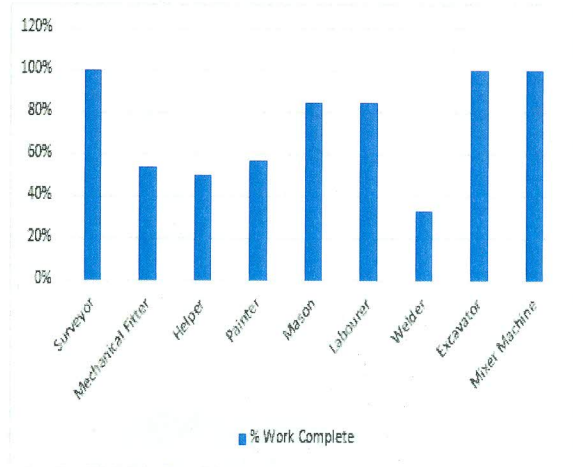
RESOURCE STATS

Work status for all work resources.



WORK STATUS

% work done by all the work resources.

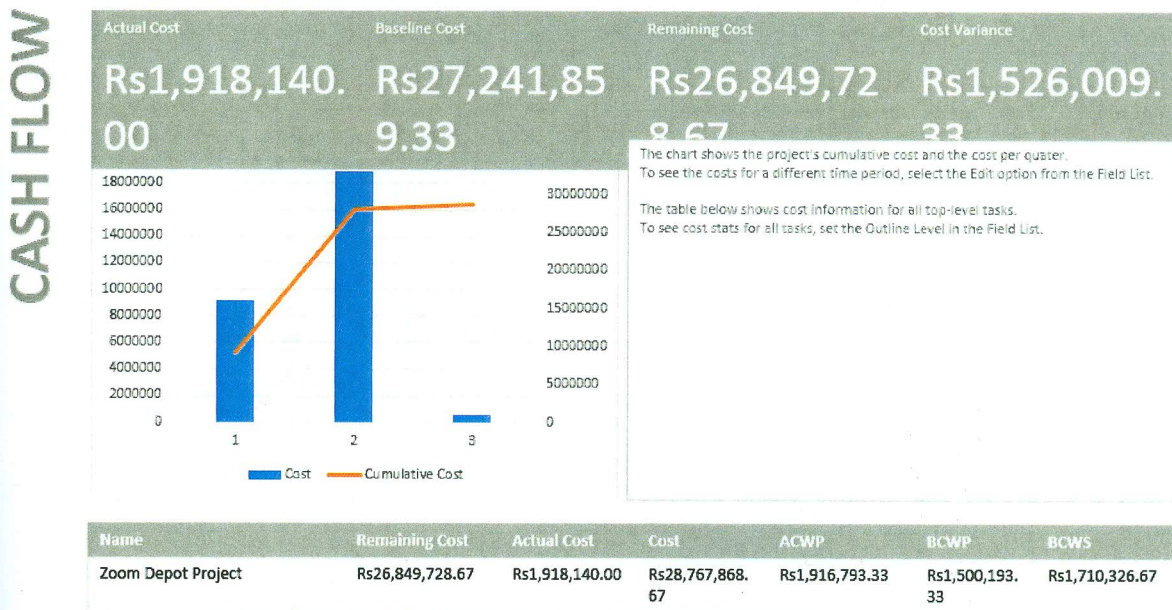


RESOURCE STATUS

Remaining work for all work resources.

Name	Start	Finish	Remaining Work
Surveyor	Wed Feb 8	Wed Feb 8	0 hrs
Mechanical Fitter	Thu Feb 9	Sun Sep 3	942.4 hrs
Helper	Thu Feb 9	Sun Sep 3	1,660.8 hrs
Painter	Sat Feb 11	Sat Sep 2	144 hrs
Mason	Thu Feb 9	Tue Aug 29	931.2 hrs
Labourer	Thu Feb 9	Tue Aug 29	1,552 hrs
Welder	Wed Feb 15	Sun Sep 3	2,353.6 hrs
Excavator	Fri Feb 10	Thu Apr 27	0 hrs
Mixer Machine	Thu Mar 2	Wed Apr 19	0 hrs

8.8. Project Cost Overrun Report



COST OVERRUNS

TASK COST VARIANCE

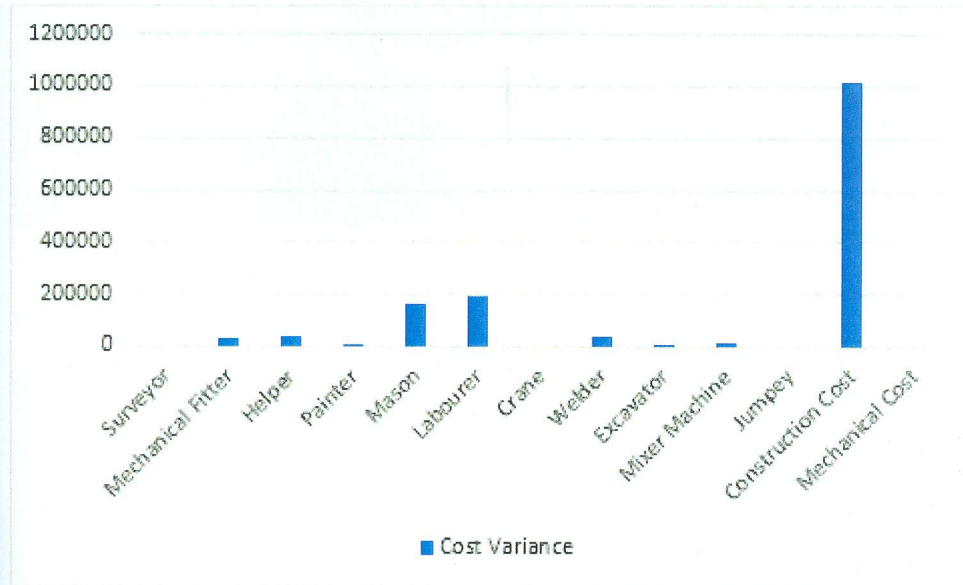
Cost variance for all top-level tasks in the project.



Name	% Complete	Cost	Baseline Cost	Cost Variance
Zoom Depot Project	65%	Rs28,767,868.67	Rs27,241,859.33	Rs1,526,009.33

RESOURCE COST VARIANCE

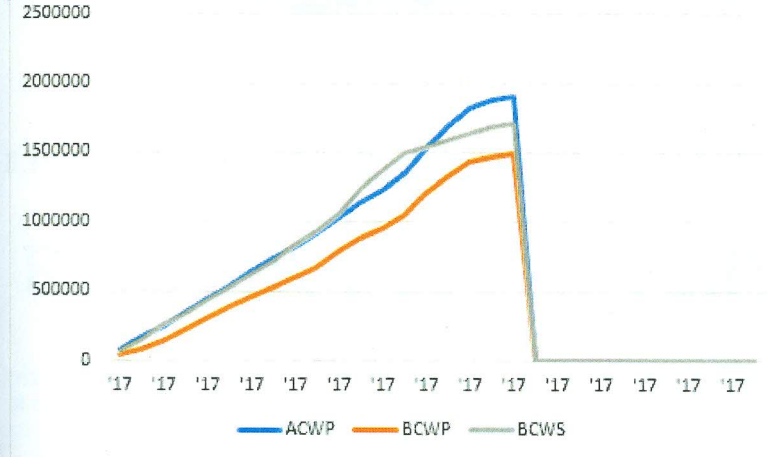
Cost variance for all the work resources.



Name	Cost	Baseline Cost	Cost Variance
Surveyor	Rs1,000.00	Rs1,000.00	Rs0.00
Mechanical Fitter	Rs186,266.67	Rs151,800.00	Rs34,466.67
Helper	Rs248,340.00	Rs208,740.00	Rs39,600.00
Painter	Rs30,800.00	Rs22,000.00	Rs8,800.00
Mason	Rs768,000.00	Rs601,000.00	Rs167,000.00
Labourer	Rs903,000.00	Rs707,000.00	Rs196,000.00
Welder	Rs525,120.00	Rs484,320.00	Rs40,800.00
Excavator	Rs40,000.00	Rs36,000.00	Rs4,000.00
Mixer Machine	Rs45,000.00	Rs30,000.00	Rs15,000.00

8.9. Project Earned Value Report

EAC	ACWP	BCWP
Rs34,807,1	Rs1,916,79	Rs1,500,19
86.23	3.33	3.33



EARNED VALUE OVER TIME

The project's earned value based on the status date. If actual cost (ACWP) is higher than earned value (BCWP), then the project is over budget. If planned value (BCWS) is higher than earned value, then the project is behind schedule.

[Learn more about earned value](#)



VARIANCE OVER TIME

Cost and schedule variances for the project based on status date. If CV is negative then, the project is over budget. If SV is positive then the project is behind schedule.

COST DETAILS

Cost details for all work resources.

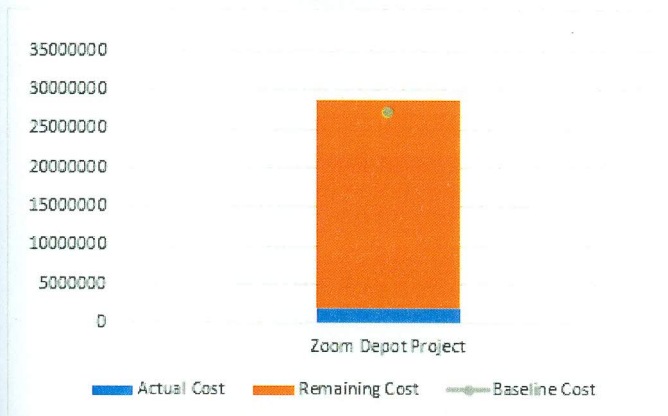
Name	Actual Work	Actual Cost	Standard Rate
Surveyor	8 hrs	Rs1,000.00	Rs30,000.00/mon
Mechanical Fitter	1,089.6 hrs	Rs99,880.00	Rs22,000.00/mon
Helper	1,650.4 hrs	Rs123,780.00	Rs18,000.00/mon
Painter	192 hrs	Rs17,600.00	Rs22,000.00/mon
Mason	5,212.8 hrs	Rs651,600.00	Rs1,000.00/day
Labourer	8,768 hrs	Rs767,200.00	Rs700.00/day
Welder	1,147.2 hrs	Rs172,080.00	Rs1,200.00/day
Excavator	80 hrs	Rs40,000.00	Rs4,000.00/day
Mixer Machine	120 hrs	Rs45,000.00	Rs3,000.00/day

8.11. Task Cost Overview Report

TASK COST OVERVIEW

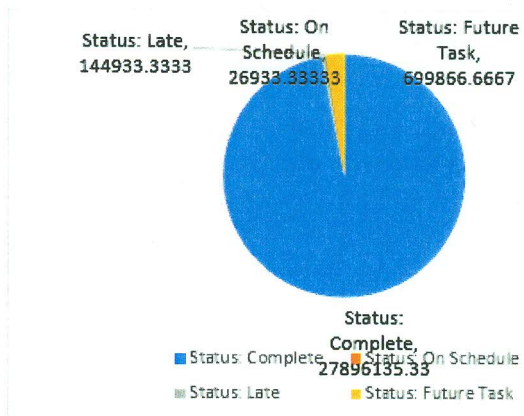
COST STATUS

Cost status for top-level tasks.



COST DISTRIBUTION

How costs are spread out amongst tasks based on their status.



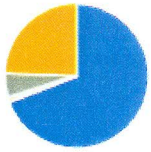
COST DETAILS

Cost details for all top-level tasks.

Name	Fixed Cost	Actual Cost	Remaining Cost	Cost	Baseline Cost	Cost Variance
Zoom Depot Project	Rs0.00	Rs1,918,140.00	Rs26,849,728.67	Rs28,767,868.67	Rs27,241,859.33	Rs1,526,009.33

8.12. Critical Tasks Report

CRITICAL TASKS



- Status: Complete
- Status: On Schedule
- Status: Late
- Status: Future Task

A task is critical if there is no room in the schedule for it to slip.

[Learn more about managing your project's critical path.](#)

Name	Start	Finish	% Complete	Remaining Work	Resource Names
1 backpass	Tue Jun 13	Fri Jun 16	80%	44.8 hrs	Weider[400%], Mechanical Fitter, Helper[200%]
4 Fitup	Sat Jun 17	Sun Jun 18	0%	112 hrs	Weider[400%], Mechanical Fitter, Helper[200%]
3 welding	Mon Jun 19	Wed Jun 21	0%	168 hrs	Weider[400%], Mechanical Fitter, Helper[200%]
2 backpass	Thu Jun 22	Fri Jun 23	0%	112 hrs	Weider[400%], Mechanical Fitter, Helper[200%]
5 Fitup	Sat Jun 24	Sat Jun 24	0%	56 hrs	Weider[400%], Mechanical Fitter, Helper[200%]
4 Welding	Sun Jun 25	Sun Jun 25	0%	56 hrs	Weider[400%], Mechanical Fitter, Helper[200%]
3 Backpass	Mon Jun 26	Mon Jun 26	0%	56 hrs	Weider[400%], Mechanical Fitter, Helper[200%]

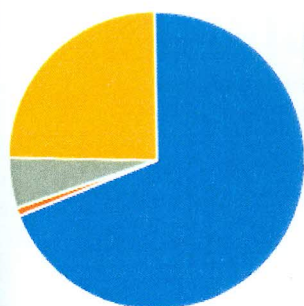
Anchor Chairs Fitup & Welding	Tue Jun 27	Tue Jun 27	0%	56 hrs	Welder[400%], Mechanical Fitter, Helper[200%]
6 Fitup	Wed Jun 28	Wed Jun 28	0%	56 hrs	Welder[400%], Mechanical Fitter, Helper[200%]
5 Welding	Thu Jun 29	Thu Jun 29	0%	56 hrs	Welder[400%], Mechanical Fitter, Helper[200%]
4 Backpass	Fri Jun 30	Fri Jun 30	0%	56 hrs	Welder[400%], Mechanical Fitter, Helper[200%]
7 Fitup	Sat Jul 1	Tue Jul 4	0%	224 hrs	Welder[400%], Mechanical Fitter, Helper[200%]
6 Welding	Wed Jul 5	Fri Jul 7	0%	168 hrs	Welder[400%], Mechanical Fitter, Helper[200%]
5 backpass	Sat Jul 8	Sat Jul 8	0%	56 hrs	Welder[400%], Mechanical Fitter, Helper[200%]
8 Fitup	Sun Jul 9	Wed Jul 12	0%	224 hrs	Welder[400%], Mechanical Fitter, Helper[200%]
7 Welding	Thu Jul 13	Mon Jul 17	0%	280 hrs	Welder[400%], Mechanical Fitter, Helper[200%]

6 Backpass	Tue Jul 18	Wed Jul 19	0%	112 hrs	Welder[400%], Mechanical Fitter, Helper[200%]
9 Fitup	Thu Jul 20	Sat Jul 22	0%	168 hrs	Welder[400%], Mechanical Fitter, Helper[200%]
9 Welding	Sun Jul 23	Tue Jul 25	0%	168 hrs	Welder[400%], Mechanical Fitter, Helper[200%]
7 Backpass	Wed Jul 26	Wed Jul 26	0%	56 hrs	Welder[400%], Mechanical Fitter, Helper[200%]
8 backpass	Thu Jul 27	Fri Jul 28	0%	112 hrs	Welder[400%], Mechanical Fitter, Helper[200%]
9 welding	Sat Jul 29	Mon Jul 31	0%	168 hrs	Welder[400%], Mechanical Fitter, Helper[200%]
9 Backpass	Tue Aug 1	Sun Aug 6	0%	336 hrs	Welder[400%], Mechanical Fitter, Helper[200%]
Column base	Mon Aug 7	Wed Aug 9	0%	144 hrs	Welder[300%], Mechanical Fitter, Helper[200%]
Column fab+Drum	Thu Aug 10	Thu Aug 10	0%	56 hrs	Welder[400%], Mechanical Fitter, Helper[200%]

Rafter Installation	Fri Aug 11	Fri Aug 11	0%	56 hrs	Welder[400%], Mechanical Fitter, Helper[200%]
FIT UP	Sat Aug 12	Sat Aug 12	0%	56 hrs	Welder[400%], Mechanical Fitter, Helper[200%]
SHORT SEAM WELDING	Sun Aug 13	Tue Aug 15	0%	168 hrs	Welder[400%], Mechanical Fitter, Helper[200%]
LONG SEAM WELDING	Wed Aug 16	Fri Aug 18	0%	168 hrs	Welder[400%], Mechanical Fitter, Helper[200%]
T-WELDING	Sat Aug 19	Mon Aug 21	0%	168 hrs	Welder[400%], Mechanical Fitter, Helper[200%]
Curb Angle Welding	Tue Aug 22	Thu Aug 24	0%	168 hrs	Welder[400%], Mechanical Fitter, Helper[200%]
Pneumatic test	Fri Aug 25	Sat Aug 26	0%	96 hrs	Mechanical Fitter[200%], Helper[400%]
Hydro Test	Sun Aug 27	Wed Aug 30	0%	160 hrs	Mechanical Fitter, Helper[400%]
Testing Completed	Wed Aug 30	Wed Aug 30	0%	0 hrs	
Piping and Tank Connection	Thu Aug 31	Sun Sep 3	0%	224 hrs	Welder, Mechanical Fitter[300%], Helper[300%]

8.13. Project Late Tasks Report

LATE TASKS



■ Status: Complete ■ Status: On Schedule
 ■ Status: Late ■ Status: Future Task

Tasks that are late as compared to the status date. A task is late if its finish date has passed or it is not progressing as planned.

Name	Start	Finish	% Complete	Remaining Work	Resource Names
Concrete Pouring	Sun Jun 4	Mon Jun 5	80%	51.2 hrs	Labourer[1,000%], Mason [600%]
Plaster Work	Tue Jun 6	Tue Jun 13	0%	1,024 hrs	Labourer[1,000%], Mason [600%]
Roof Plate	Wed Jun 14	Thu Jun 15	0%	64 hrs	Mechanical Fitter, Helper[200%], Welder
Manhole shells	Thu May 11	Fri May 12	0%	80 hrs	Mechanical Fitter, Helper[200%], Welder[200%]

8.14. Project Milestones Report

MILESTONE REPORT

LATE MILESTONES

MILESTONES UP NEXT

COMPLETED MILESTONES

Milestones that are past due.

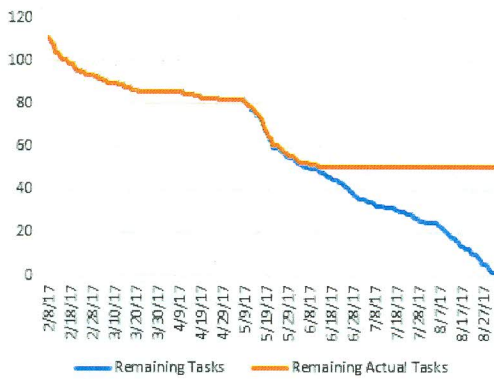
Milestones due in this month.

Milestones that are 100% complete.

Name	Finish
------	--------

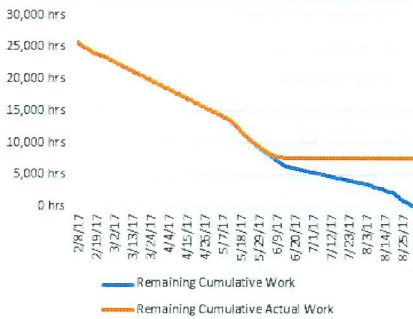
Name	Finish
------	--------

Name	Finish
Piping Pre Work Completed	Fri Feb 17
Piping Work Completed	Mon Feb 20



8.15. Project Slipping Tasks Report

SLIPPING TASKS



Tasks where the finish date is past the baseline finish date.

Name	Start	Finish	% Complete	Remaining Work	Resource Names
Concrete Pouring	Sun Jun 4	Mon Jun 5	80%	51.2 hrs	Labourer[1,000%], Mason[600%]
Plaster Work	Tue Jun 6	Tue Jun 13	0%	1,024 hrs	Labourer[1,000%], Mason[600%]
Brick Work	Sat Aug 19	Mon Aug 21	0%	384 hrs	Labourer[1,000%], Mason[600%]
Steel Fixing of Top Beam	Tue Aug 22	Tue Aug 22	0%	128 hrs	Labourer[1,000%], Mason[600%]
Shuttering	Wed Aug 23	Fri Aug 25	0%	384 hrs	Labourer[1,000%], Mason[600%]
Concrete Pouring	Sat Aug 26	Sat Aug 26	0%	128 hrs	Labourer[1,000%], Mason[600%]
Plaster Work	Sun Aug 27	Tue Aug 29	0%	384 hrs	Labourer[1,000%], Mason[600%]
Civil Work Completed	Tue Aug 29	Tue Aug 29	0%	0 hrs	
Roof Plate	Wed Jun 14	Thu Jun 15	0%	64 hrs	Mechanical Fitter, Helper[200%]

Manhole shells	Thu May 11	Fri May 12	0%	80 hrs	Mechanical Fitter,Helper[200%], Welder[200%]
1 backpass	Tue Jun 13	Fri Jun 16	80%	44.8 hrs	Welder[400%],Mechanical Fitter,Helper[200%]
4 Fitup	Sat Jun 17	Sun Jun 18	0%	112 hrs	Welder[400%],Mechanical Fitter,Helper[200%]
3 welding	Mon Jun 19	Wed Jun 21	0%	168 hrs	Welder[400%],Mechanical Fitter,Helper[200%]
2 backpass	Thu Jun 22	Fri Jun 23	0%	112 hrs	Welder[400%],Mechanical Fitter,Helper[200%]
5 Fitup	Sat Jun 24	Sat Jun 24	0%	56 hrs	Welder[400%],Mechanical Fitter,Helper[200%]
4 Welding	Sun Jun 25	Sun Jun 25	0%	56 hrs	Welder[400%],Mechanical Fitter,Helper[200%]
3 Backpass	Mon Jun 26	Mon Jun 26	0%	56 hrs	Welder[400%],Mechanical Fitter,Helper[200%]
Anchor Chairs Fitup & Welding	Tue Jun 27	Tue Jun 27	0%	56 hrs	Welder[400%],Mechanical Fitter,Helper[200%]

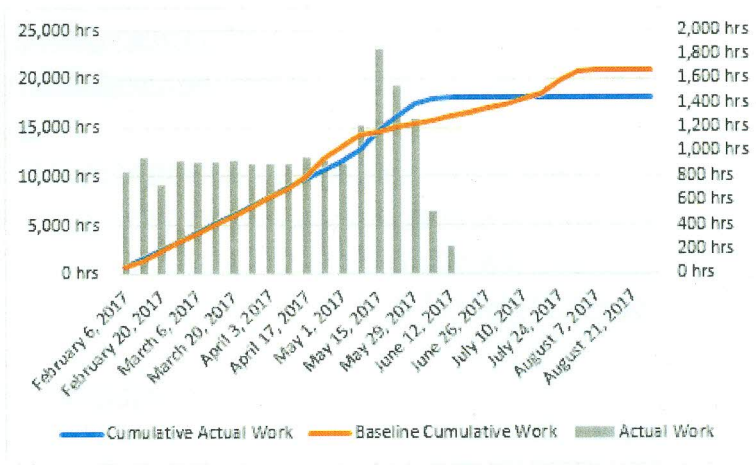
Anchor Chairs Fitup & Welding	Tue Jun 27	Tue Jun 27	0%	56 hrs	Welder[400%],Mechanical Fitter,Helper[200%]
6 Fitup	Wed Jun 28	Wed Jun 28	0%	56 hrs	Welder[400%],Mechanical Fitter,Helper[200%]
5 Welding	Thu Jun 29	Thu Jun 29	0%	56 hrs	Welder[400%],Mechanical Fitter,Helper[200%]
4 Backpass	Fri Jun 30	Fri Jun 30	0%	56 hrs	Welder[400%],Mechanical Fitter,Helper[200%]
7 Fitup	Sat Jul 1	Tue Jul 4	0%	224 hrs	Welder[400%],Mechanical Fitter,Helper[200%]
6 Welding	Wed Jul 5	Fri Jul 7	0%	168 hrs	Welder[400%],Mechanical Fitter,Helper[200%]
5 backpass	Sat Jul 8	Sat Jul 8	0%	56 hrs	Welder[400%],Mechanical Fitter,Helper[200%]
8 Fitup	Sun Jul 9	Wed Jul 12	0%	224 hrs	Welder[400%],Mechanical Fitter,Helper[200%]
7 Welding	Thu Jul 13	Mon Jul 17	0%	280 hrs	Welder[400%],Mechanical Fitter,Helper[200%]

6 Backpass	Tue Jul 18	Wed Jul 19	0%	112 hrs	Welder[400%],Mechanical Fitter,Helper[200%]
9 Fitup	Thu Jul 20	Sat Jul 22	0%	168 hrs	Welder[400%],Mechanical Fitter,Helper[200%]
8 Welding	Sun Jul 23	Tue Jul 25	0%	168 hrs	Welder[400%],Mechanical Fitter,Helper[200%]
7 Backpass	Wed Jul 26	Wed Jul 26	0%	56 hrs	Welder[400%],Mechanical Fitter,Helper[200%]
8 backpass	Thu Jul 27	Fri Jul 28	0%	112 hrs	Welder[400%],Mechanical Fitter,Helper[200%]
9 welding	Sat Jul 29	Mon Jul 31	0%	168 hrs	Welder[400%],Mechanical Fitter,Helper[200%]
9 Backpass	Tue Aug 1	Sun Aug 6	0%	336 hrs	Welder[400%],Mechanical Fitter,Helper[200%]
Column base	Mon Aug 7	Wed Aug 9	0%	144 hrs	Welder[300%],Mechanical Fitter,Helper[200%]
Column fab+Drum	Thu Aug 10	Thu Aug 10	0%	56 hrs	Welder[400%],Mechanical Fitter,Helper[200%]

Rafter Installation	Fri Aug 11	Fri Aug 11	0%	56 hrs	Welder[400%], Mechanical Fitter, Helper[200%]
FIT UP	Sat Aug 12	Sat Aug 12	0%	56 hrs	Welder[400%], Mechanical Fitter, Helper[200%]
SHORT SEAM WELDING	Sun Aug 13	Tue Aug 15	0%	168 hrs	Welder[400%], Mechanical Fitter, Helper[200%]
LONG SEAM WELDING	Wed Aug 16	Fri Aug 18	0%	168 hrs	Welder[400%], Mechanical Fitter, Helper[200%]
T-WELDING	Sat Aug 19	Mon Aug 21	0%	168 hrs	Welder[400%], Mechanical Fitter, Helper[200%]
Curb Angle Welding	Tue Aug 22	Thu Aug 24	0%	168 hrs	Welder[400%], Mechanical Fitter, Helper[200%]
Shell Nozzles	Sun Aug 6	Mon Aug 7	0%	112 hrs	Welder, Mechanical Fitter[300%], Helper[300%]
Roof Nozzles	Sun Aug 13	Mon Aug 14	0%	112 hrs	Welder, Mechanical Fitter[300%], Helper[300%]
Stairs Erection	Mon Aug 7	Tue Aug 8	0%	112 hrs	Welder, Mechanical Fitter[300%], Helper[300%]
Water Spray Nozzle	Tue Aug 15	Wed Aug 16	0%	112 hrs	Welder, Mechanical Fitter[300%], Helper[300%]
Mechanical Work Completed	Wed Aug 16	Wed Aug 16	0%	0 hrs	
Pneumatic test	Fri Aug 25	Sat Aug 26	0%	96 hrs	Mechanical Fitter[200%], Helper[400%]
Hydro Test	Sun Aug 27	Wed Aug 30	0%	160 hrs	Mechanical Fitter, Helper[400%]
Testing Completed	Wed Aug 30	Wed Aug 30	0%	0 hrs	
Paint	Thu Aug 31	Sat Sep 2	0%	144 hrs	Painter[600%]
Piping and Tank Connection	Thu Aug 31	Sun Sep 3	0%	224 hrs	Welder, Mechanical Fitter[300%], Helper[300%]

8.16. Project S-Curve

S-Curve



Chapter 9 References

- A guide to PMBOK 5th edition.
- The Program Management Office: Establishing, Managing and Growing the Value of a PMO (By Craig J. Letavec).
- The Complete Project Management Office Handbook (Third Edition, By Gerard M. Hill).
- https://en.wikipedia.org/wiki/Project_management_office
- <http://www.brighthubpm.com/certification/69777-understanding-pmo-roles-and-responsibilities/>
- <http://www.pmi.org/learning/pmo-managed-services-model-9331>
- <http://www.ittoolkit.com/how-to-it/projects/project-management-office.html>
- <http://www.slideshare.net/anandsubramaniam/project-management-office-pmo>
- <https://www.linkedin.com/pulse/20140627225913-4817564-roles-and-types-of-pmo-structures>
- <https://www.eliteengineering.com.pk>

Chapter 10 Appendix (Project Template Documents)

PROJECT CHARTER

Version #	Issue Date	Approved By	Approval Date	Changes	Prepared By

Project Name	
Description	
Project Objectives	
Acceptance Criteria	
Assumptions	
Constrains	
Project Duration	
Project Start Date	
Project Completion Date	
Milestones List	
Project Budget	
High Level Risks	
Major Stakeholders List	
Project Manager	
Roles and Responsibilities	
SIGNOFF	

Project Scope Statement

Version History

Version #	Issue Date	Approved By	Approval Date	Changes	Prepared By

Introduction

Project Objectives

Major Deliverables

Milestones List

Limits and Exclusions

Technical Specifications

Weekly Progress Report

WEEKLY PROJECTS PROGRESS REPORT										
DATED: //2017										
SR #	Activity /description	Planned Start Date	Planned Comp. Date	Revised Comp. date	Delay (Days)	Status	%age Comp. (to date)	Reason of Delay / Hold	Remarks	
1 - Zoom depot Pattoki										
		Project Start date: //2017				Project Planned Completion date: //2017				
		Project Revised Completion date: //2017				Total Delay of the project: 0 days				
Overall Project Completion:										

Report II

ORIGINALITY REPORT

0%	0%	0%	0%
SIMILARITY INDEX	INTERNET SOURCES	PUBLICATIONS	STUDENT PAPERS

PRIMARY SOURCES

EXCLUDE QUOTES OFF
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