

CONSTRUCTION OF PENTA SQUIRE DHA-V

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SEMESTER: AUTUM-2017, MSPM - II

PROGRAM: MS (PROJECT MANAGEMENT)



BAHRIA UNIVERSITY LAHORE CAMPUS

SUBMITTED TO:
SUBMISSION DATE:

MR. AHSAN MAQBOOL
January 16TH, 2017



M. A. Aleem Khan & Sons (Pvt) Ltd.

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.

It is witnessed that **Mr. Sajjad Ali** Enrollment **03-298161-031**, **Mr. Muhammad Waqar** Enrollment **03-298161-027** Class: **MSPM-II** Semester: Fall 2016 has utilized our premises and participated in our real time projects for implementation project management skills using MS Project/EPM as a leading software tool.

He, in case of participation in organizing's project, has contributed fully in the following Project and within the highlighted fields:

1. Performed detailed analysis on the Project of **Construction of Penta Square** managing through **MS Project**.
2. Further he focus on Planning, Scheduling, Earned Value Analysis, Monitoring, Report Generation and Claim debugging.

Additionally, it is noteworthy to mention that **Mr. Sajjad Ali (03-298161-031)**, And

Mr. Muhammad Waqar Enrollment **03-298161-027** demonstrated good ethical practices, enthusiastic approach to work, task convergence capabilities, professionalism while his stay with this organization.

Certified By Company Official:

Muhammad Waseem Khan

Director

MAAKSONS (PVT) LTD.

Department of Management Sciences Bahria University (Lahore Campus)



CERTIFICATE

It is certified that M.Phil/MS Project Report Titled “**Construction of Penta Squire DHA**” by MSPM-II student named **Mr.Sajjad Ali Mr. Muhammad Waqar** has been examined by us.

We undertake the following:

- a. Project report has significant new work/knowledge as compared already published or are under consideration to be published elsewhere. No equation, diagram, table, paragraph or section has been copied verbatim from previous work unless it is placed under quotation marks and duly referenced.
- b. The work presented is original and own work of the author (i.e. there is no plagiarism). No ideas, processes, results or words of others have been presented as Author own work.
- c. There is no fabrication of data or results which have been compiled / analyzed.
- d. There is no falsification by manipulating research materials, equipment or processes, or changing or omitting data or results such that the research is not accurately represented in the research record.

Mr. Ahsan Maqbool



CONSTRUCTION OF PENTA SQUIRE DHA

Project Name	Construction Of Penta Square, Phase-V, D.H.A, Lahore
Address of Project	CCA -1, Phase-V, DHA, Lahore.
Client	 Defense Housing Authority Lahore
Consultant	 AL-IMAM Enterprises Pvt. Ltd.
Contractor	 M/S MAAKSONS (Pvt.) Ltd.



1-Abstract

Basic structure of any organization is based on Project management. 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)

2-Acknowledgement

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

Thanks to Organization

MAAKSONS for providing me enough exposure to explain the things in detail in this report. Many thanks to BU for providing opportunity to learn and at the same time great support to ensure success.

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

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

I thank you all.

My regards,

Sajjad ali

MSPM-II, Bahria University Lahore Campus

Table of Contents

1 Abstract..... 4

2 Acknowledgement 5

3 Introduction 9

 3.1 Vision..... 10

 3.2 Mission 10

 3.3 Strategy..... 10

 3.4 Services Offered 11

 3.5 Values 12

 3.6 Organizational Structure and Culture 12

 3.7 Excellence through integrated Management System 12

4 Introduction to Project Management Office 13

 4.1 PMO Framework 13

 4.1.1 Process 14

 4.1.2 Governance..... 14

 4.1.3 Organization..... 14

 4.1.4 Resources 15

 4.2 PMO Roles..... 16

 4.2.1 Supportive 16

 4.2.2 Controlling 16

 4.2.3 Directive 17

 4.3 Types of PMO 17

 4.3.1 Weather Station 17

 4.3.2 Control Tower..... 18

 4.3.3 Resource Pool..... 18

 4.4 PMO Responsibilities 19

 4.4.1 Establishing Project Methodologies 19

 4.4.2 Project Tracking 19

 4.4.3 Project Support 19

 4.5 Role of Project Managers vs. PMO..... 20

 4.6 PMO Goals..... 21

 4.7 Challenges of a PMO 21

4.8 Elements of an Effective PMO	22
5 PMO Implementation in MaakSons	23
5.1 Organizational Structure	23
5.2 Why there is a Need of PMO?	23
5.3 Problems without a PMO.....	23
6 Establishing PMO for MAAKSONS.....	24
6.1 PMO Strategy.....,	24
6.1.1 PMO Scope	25
6.1.2 PMO Mission	25
6.1.3 PMO Vision	25
6.1.4 PMO Values	25
6.1.5 Stakeholders	25
6.1.6 Proposed PMO Functions/Objectives	25
6.1.7 PMO Roles and Responsibilities.....	26
6.2 Project Management Methodology	27
6.2.1 Project Performance Indicators.....	27
6.3 Project Administrative Support.....	27
6.4 Project Training & Coaching	27
6.5 Management Reporting.....	27
6.6 Continuous Improvement	28
7. Challenges Faced in Establishment of PMO	29
7.1 How to Tackle these Challenges?	29
8. PMO Value Addition for MAAKSONS	31
9 Business Drivers.....	32
10 Selected Project	33
10.1 Project Title	33
10.2 Relevance with Company's Business Drivers	33
10.3 Critical Success Factors.....	34
10.4 External Dependencies	34
10.5 Stakeholders Analysis.....	34
10.6. Project Documents.....	35
11 Project Charter	36
11.1 Version History.....	36
11.2 Introduction	37

11.3 Project Objectives	37
11.4 High Level Requirements.....	37
11.5 Success Criteria	37
11.6 Estimated Duration.....	37
11.7 High Level Risks	38
11.8 Stakeholders	38
11.9 Project Budget Estimates.....	38
11.10 Project Charter Approval.....	39
12 Project Scope Statement.....	40
12.1 Version History.....	40
12.2 Introduction	40
12.3 Project Scope Description.....	40
12.4 Acceptance Criteria.....	41
12.5 Project Deliverables	41
12.6 Constraints	41
12.7 Assumptions.....	42
13 Microsoft Project Sheets	43
13.1 Resource Sheet	44
13.2 Work Breakdown Structure	45
13.3 Project Schedule (Bar Chart)	46
13.4 Network Diagram	47
13.5 Resource Reports	48
13.5.1 Resource Overview.....	49
13.5.2 Over Allocated Resources	50
13.6 Cost Reports	51
13.6.1 Cash Flow Report	52
13.6.2 Cost Overruns Report	53
13.6.3 Earned Value Report.....	54
13.6.4 Resource Cost Overview	55
13.6.5 Task Cost Overview Report	56
13.7 In Progress Reports	56
13.7.1 Critical Tasks.....	58
13.7.2 Late Tasks.....	59
13.7.3 Milestone Report	60

13.7.4 Slipping Tasks.....	61
13.8 Project Dashboards..... M. A. Aleem Khan & Sons (Pvt) Ltd.	62
13.8.1 Burndown	63
13.8.2 Cost Overview.....	64
13.8.3 Project Overview	65
13.8.4 Upcoming Tasks	66
13.8.5 Work Overview.....	67
13.9 S Curve (Work)	68
14 References	69
15 Appendix A - Templates	70
15.1 Project Charter Template	71

3.INTRODUCTION TO

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).

3.1. 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.

3.2. 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.

3.3. 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.

3.4.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
-

3.5. 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

3.6. 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

3.7. 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 Companywebsite (<http://www.maaksons.com>).

AlistofMAAKSONS IMS certifications along with locations is given below:

Certification Name	Description
ISO 9001 – 2008	Quality Management System (QMS)
ISO14001:2004	EnvironmentalManagementSystem(EMS)
OHSAS18001:2007	OccupationalHealth & SafetyAssessment Series (OH&S ManagementSystem)

4. Introduction to Project Management Office

A project management office (PMO) is a group or department within a business, agency or enterprise that defines and maintains standards for project management within the organization. The PMO strives to standardize and introduce economies of repetition in the execution of projects. The PMO is the source of documentation, guidance and metrics on the practice of project management and execution. The responsibilities of a PMO can range from providing project management support functions to actually being responsible for the direct management of one or more projects. The projects supported or administered by the PMO may not be related, other than by being managed together.

4.1. PMO Framework

There are four important elements when establishing PMO in an organization. These four elements are:

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



The objective of a project management office (PMO) is to ensure that projects are delivered within budget and on schedule which in turn provides an opportunity for organizations to be effective and efficient in their line of business. The success of a PMO is directly related to the structure of above mentioned four elements considered while establishing a PMO.

4.1.1 Process:

When developing project management processes, you need to adapt best practices that are commonly used in the industry such as PMI-PMBOK, PRINCE-2,

4.1.2 Governance:

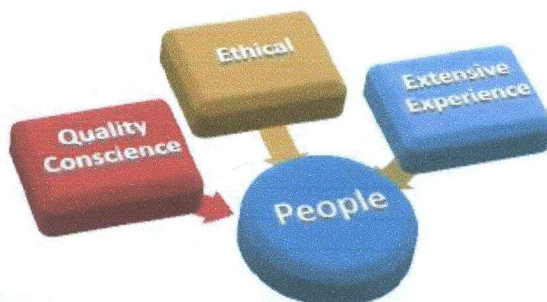
Reporting structure for effective PMO operations should be governed at the project operational level, program management level, as well as portfolio management level. The tasks in governance may include:

1. Milestone status monitoring.
2. Risks & benefits management.
3. Budgets & project accounting.
4. Expenses & materials reviews.
5. Issues & actions tracking.
6. Resource conflict resolution.
7. Skills demand forecasting.
8. Standards & processes.
9. Analysis & improvement.
10. Audits & compliance.
11. Standard & custom reporting.



4.1.3 Organization:

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

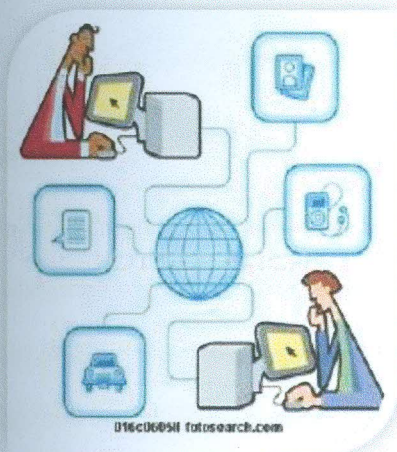


4.1.4 Resources:

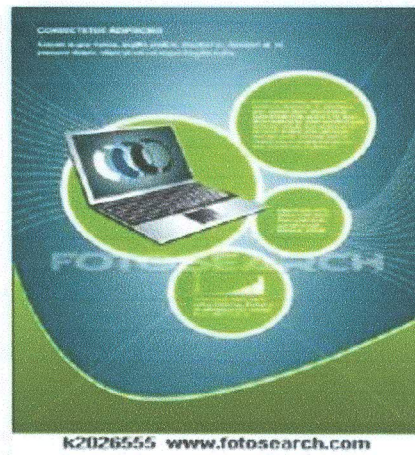
People factor plays vital role in PMO organization and they should have quality conscience, ethical and extensive experience. Skills development programs should be established to build these aspects in PMO team.

Other important element is the Knowledge-based for consistency in project documents & easier accessibility. Documents should be generated through standard templates which should be available in project knowledge-based. Any further information which may be required for guidance on project current state from internet should be in access of the project team.

Information via Internet



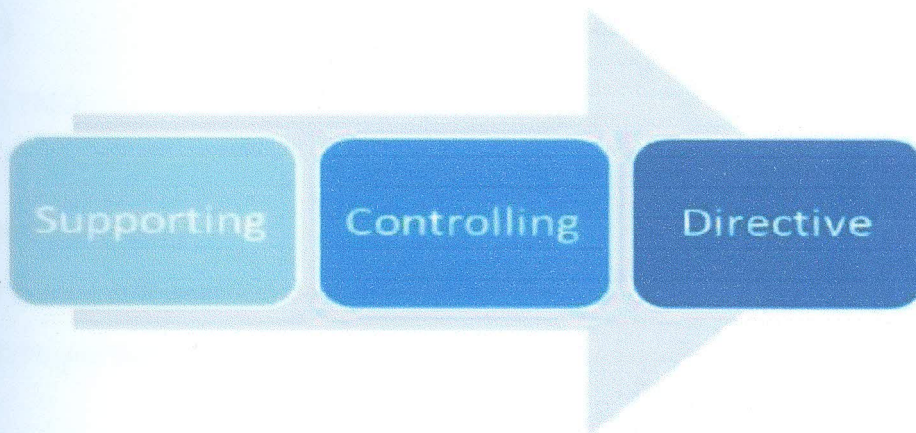
Template-driven documents



4.2 PMO Roles:

There are several roles of PMO structures in organizations, each varying in the degree of control and influence they have on projects within the organization, such as:

1. Supportive
2. Controlling
3. Directive



4.2.1 Supportive:

Supportive PMOs provide a consultative role to projects by supplying templates, best practices, training, access to information and lessons learned from other projects. This type of PMO serves as a project repository. The degree of control provided by the PMO is low. The supportive PMO generally provides support in the form of on-demand expertise, access to information, and expertise on other projects, and the like.

4.2.2 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.

4.2.3 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.

4.3 Types of PMO

There are three types of PMO:

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

4.3.1 Weather Station:

The Weather Station project management office reports on what is going on but does not try to influence it. This PMO doesn't bother any of the PMs who are leading projects. These Weather Station people accumulate data about projects and summarize it for executives without making any decisions or enforcing any standards. They just pass on the information to anyone who is interested. It often turns out that no one uses their data. The Weather Station can be implemented painlessly and if the information is focused, they can serve decision-makers' needs. Sometimes executives get nervous about all the money they're spending on projects without their really knowing what's happening. They get confused by different reporting formats coming from different project managers with different varieties of jargon, plus the sheer number of activities going on at once. To end their confusion, weather station is suggested.

4.3.2 Control Tower:

In the Control Tower PMO, the project office gives project managers direction on methodology. This includes project initiation, acquiring resources and correcting variances. While each PM manages his own projects, the Control Tower PMO will alert them to impending problems. It will also identify situation where the PM is not adhering to the methodology, particularly during scheduling and verification of deliverables.

4.3.3 Resource Pool:

This type of PMO helps projects conform and perform. The solution organizations that rely heavily on projects to do business cannot afford inattention to this key capability. Set up a “Resource Pool” for project managers. Managers and executives needing projects then “hire” a project manager from this repository of expertise. It makes logical sense to combine the Resource Pool with the two earlier PMOs. With a Resource Pool properly in place, executives may reasonably expect project managers supervised to ensure that they properly apply their skills.

4.4 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:

1. Establishing Project Methodologies
2. Project Tracking
3. Project Support

4.4.1 Establishing Project Methodologies:

A major PMO role includes providing a project baseline or the implementation road map for the project. The PMO estimates the size of the proposed project, required timeline, required project resources and defines the project management methodology. It generates artifacts like project charter, plans (risk, communication, cost management, quality, procurements etc.), work breakdown structure and standard forms and templates for record-keeping and reporting.

4.4.2 Project Tracking:

PMO is supposed to audit and track ongoing projects in the organization at certain frequency to ensure that projects are following the approved methodology and are on course. In addition, during project tracking, PMO is responsible to collect and archive project experience to improve the being used project management methodology.

4.4.3 Project Support:

PMO is supposed to provide continuous support for successful execution of the on-going projects in an organization.

4.5 Role of Project Managers vs. PMO:

- | | |
|--|--|
| <ol style="list-style-type: none"> 1. A project manager focuses on the specified project objectives. | PMO manages major scope changes in program which may be considered as potential opportunities to better achieve business goals. |
| <ol style="list-style-type: none"> 2. A project manager controls the assigned project resources in order to meet project objectives. | PMO is responsible for optimize use of shared organizational resources across all on-going projects. |
| <ol style="list-style-type: none"> 3. A project manager is responsible to manage the project constraints e.g. scope, schedule, cost, quality etc. | PMO manages the standards, methodologies, overall risks/opportunities, metrics and any interdependencies among projects at organizational level. |

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

PMO Manager

Help
Advise
Review
Facilitate
Audit / QA
Mentor / Coach
Strategic Planning
Train PM Resources
Manage Project
Knowledge

Project Manager

Plan
Track
Initiate
Control
Manage
Execute
Estimate
Organise
Communicate

4.6 PMO Goals:

An effective PMO can serve several key goals like:

1. Improve project performance through established standards.
2. Lower project costs through minimized redundancies.
3. Leverage specialized project management skills and expertise.
4. Centralize management of a multi-project portfolio.
5. Standardize project management services to diverse business units.
6. Consolidate project oversight for project performance metrics.
7. Maximize external vendor contracts for the delivery of outsourced project management services.

4.7 Challenges of a PMO:

A PMO should be supported by senior management, which is one of the most critical and common challenges. A direct consequence of the lack of executive sponsorship and support is inadequate resourcing. Another challenge is corporate culture and failure to manage organizational resistance to change. Many times, the PMO is also expected to interact with poorly trained project managers. As a result, the PMO devotes time on up-training them.

Other experts say the generic challenge PMOs face is defining the PMO's responsibility and abiding by it. Most often, supportive PMOs try to micromanage the projects, which is not under their responsibilities. PMOs should strictly follow the model that has been chosen. Following are the major challenges of the PMOs:

1. Connecting the PMO to organization's strategic vision.
 2. Establishing a metric-based approach.
 3. Maintain consistent PM framework across projects.
 4. Managing the resource pool and avoiding resource bottlenecks.
 5. Lack of acceptance of the need for the role from people delivering aspects of the work.
 6. Being requested to reduce the amount of reporting.
 7. Lack of senior leadership acceptance of the need to really engage with staff.
-

4.8 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:

5. PMO IMPLEMENTATION IN MAAKSONS

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

5.1. 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.

5.2. 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.

5.3 Problems without a PMO:

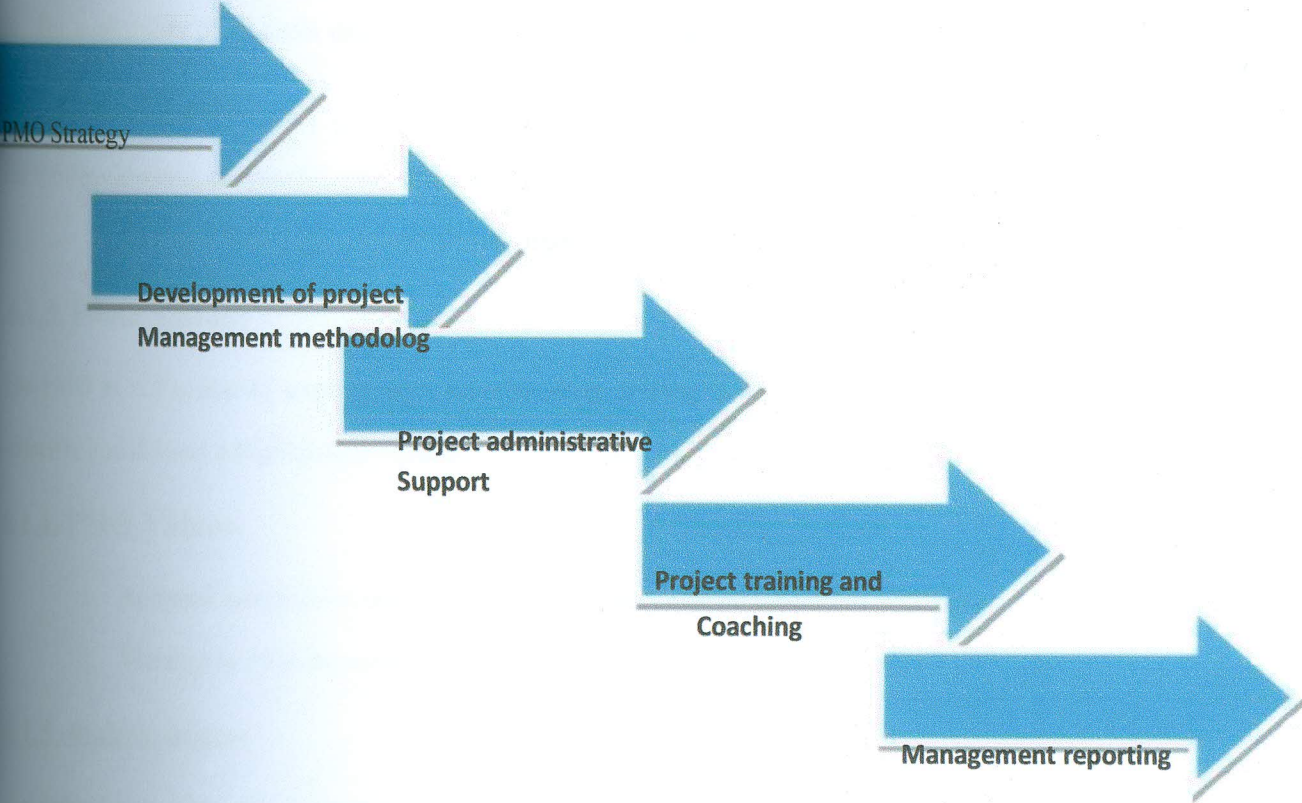
- 1) Project reports are offered by the senior management and the project managers differs.
 - 2) Representation of the projects is done by the matrix and project managers unable to share its opinion.
 - 3) The documentation of the running projects is poor.
 - 4) Project managers are not regularly tracking 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 thesame time.

6. ESTABLISHING PMO FOR MAAKSONS

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.

6.1 PMO Strategy:



6.1.1 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.

6.1.2 PMO Mission:

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

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

6.1.3. 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.

6.1.4. 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.

6.1.5. Stakeholders:

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

6.1.6 Proposed PMO Functions/Objectives:

The proposed PMO will have following functions/objectives:

1. To streamline and standardise the project processes.
 2. To govern rules and procedures in project delivery.
 3. To monitor and control project delivery scopes.
 4. The custodian of projects' knowledge base.
-

5. To develop appropriate skill-sets for project teams.
6. To advise senior management on optimized resources allocation.
7. A centralized project support office.
8. To manage competency levels of the project resources.
9. A centralized repository of project resources e.g. project managers and project team members.
10. Inter location usage of project team members.
11. To select and maintain project management tools.
12. Imparting trainings.
13. To ensure project baselines for measuring project performances.
14. Central body for defining reporting / tracking / auditing requirements.
15. Creation of templates / forms required in projects.
16. Team development.
17. Career development.
18. New projects' assessments.
19. Scheduling of projects.
20. Defining standards and policies for projects.
21. Uniform distribution of resources across projects.

6.1.7. 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.

6.2 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.

6.3 Project administrative support:

All the planning activities which done by PMO directing council. A proper platform is provided to the PMO for working by organization. PMO working tools are set up accordingly.

For PMO activities proper office is established

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.

6.4 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.

6.5. 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.

6.6. 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.

7. CHALLENGES FACED IN ESTABLISHMENT OF PMO

Challenges faced in Organization of PMO:

During the formation Of PMO, Faced many challenges major of which are:

1. Senior Management not understand the task. It's difficult for them to comprehend whole scheme and purpose of this company has been built.
2. Apprehensions of experienced and senior managers regarding the expenditures of construction and future outcomes of this project.
3. Senior bench showed opposition in accepting the main frontline project control.
4. Assessment of the senior officials that this project may hurdle in achievement of project's original objectives.
5. They did not comprehend the original benefits and value that project can given management.
6. 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. Project performance Assessment
 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.

Solution of these challenges:

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

Reorganizing the whole course:

- Harmonized the proposal management program.
- Coverage of the management work is clearly defined

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.

Assurance from the senior officials

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

8.0 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.

8. 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.

10. SELECTED PROJECT

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

10.1 Project Title:

Penta Square DHA Phase-V, Lahore.

10.2 Relevancy with Company's Business Drivers:

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

10.2.1 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.

10.2.2 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

10.2.3 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.

10.3 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.

10.4 External Dependices:

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.

10.5 Stack Holder Analysis:

Stake holders	Power	Inerest	Priority
Branch Controller	High	High	Manage Closely
GM	High	High	Manage Closely
MANGMENT	High	High	Manage Closely
Vendors	High	High	Manage Closely
Sub contraction	High	High	Manage Closely
Resident to Lahore	High	High	Manage Closely
Marketing management	High	High	Manage Closely
Executive Head	High	High	Manage Closely

10.6 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.



PENTA SQUARE DHA PHASE-V LAHORE



11.0 PROJECT CHARTER:

11.1 Version History:

Version#	Completed By	Revision Date	Approved By	Approval Date	Reason
1.0 (Rev 0)			PMO		It is first version of project charter document.

11.2 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.

11.3 Project Objectives:

To Build commercial high level Business and Residential apartments as per requirement of there client DHA located on Main Boluard in C Block Commerical Area.

11.4 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.

11.5 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

11.6 Estimated duration:

The estimated duration for the project is 26 months which will also include the approvals

High level Risks:

is major list of High level Risks

Ref	Category	Risk
1	Client	Changes in scope of works
2	Client	Failure to handover the site on time
3	External	Neighbors - dust, noise lack of barrier around site.
4	Design	Vibration in the existing structure during construction works.
5	Regularity Authority	Improving environment quality by regularity Authority
6	Handover	Failure to meet stakeholder requirements at Handover
7	Operations	Cleaning / Maintenance strategies not acceptable to the college
8	Design	Building regulations approvals.
9	Construction	Health, Safety and Environment issues at site

11.8 List the major Stake holders:

Stake Holders
Branch Controller
GM
MANGMENT
Vendors
Sub contraction
Resident to Lahore
Marketing management
Executive Head
Consultant

11.9 Project Budget Estimated

Rs. 2350/- Million only for structure this is the estimated budget for the project

11.10 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.

Signature:.....

Date:.....

Name:.....

Role:..... Project Sponce

Signature:.....

Date:.....

Name:

Role: Project Manager

12. Project Scope Statement

Version#	Completed By	Revision Date	Approved By	Approval Date	Reason
1.0 (Rev 0)	Sajjad ali		PMO		It is first version of project charter document.

Version History:

12.1 Introduction:

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

12.2 Project scope description:

Penta Square Project is being constructed in DHA Lahore phase 5 with direct access on Main Boulevard in C Block Commercial area.

The maximum height of Penta Square Project will be 200 feet. Total area reserved for all apartments buildings, Offices and Shops will be about 79 Kanal. Covered areas will be about 29 %. Green or open areas will be about 71 %.

There will a Hyper Star market and food court. Swimming pool and Gym/Spa is also included. 24/7 electricity supply will be ensured. CCTV automated building management systems and electronic parking system will be introduced. 24/7 medical treatment facility will be provided. Other details are as below

12.3 Acceptance criteria:

1. Timely completion of project.
2. Completion of the project within approved budget.
3. Meeting the required quality standards.

12.4 PROJECT MAIN DELIVERABLES:

Sr. No.	PROJECT MAIN DELIVERABLES
1	HR Procurements
2	Procurement of Design Consultant
3	Procurement of Contractor
4	Procurement of Project Team
5	Architectural design
6	Structural design
7	Basement
8	Ground Floor
9	1st Floor
10	2nd Floor
11	Mumty plan complete
12	Interior Finishing
13	Plumbing, Electrical, HVAC
14	Plaster work
15	Ceiling, Floor, Wood works, Paint etc.
16	Exterior Finishing
17	Closing

12.5 Constraints:

There are several constraints that must be considered. These constraints apply to several areas which include schedule, cost, scope, resources

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

12.7. Assumptions:

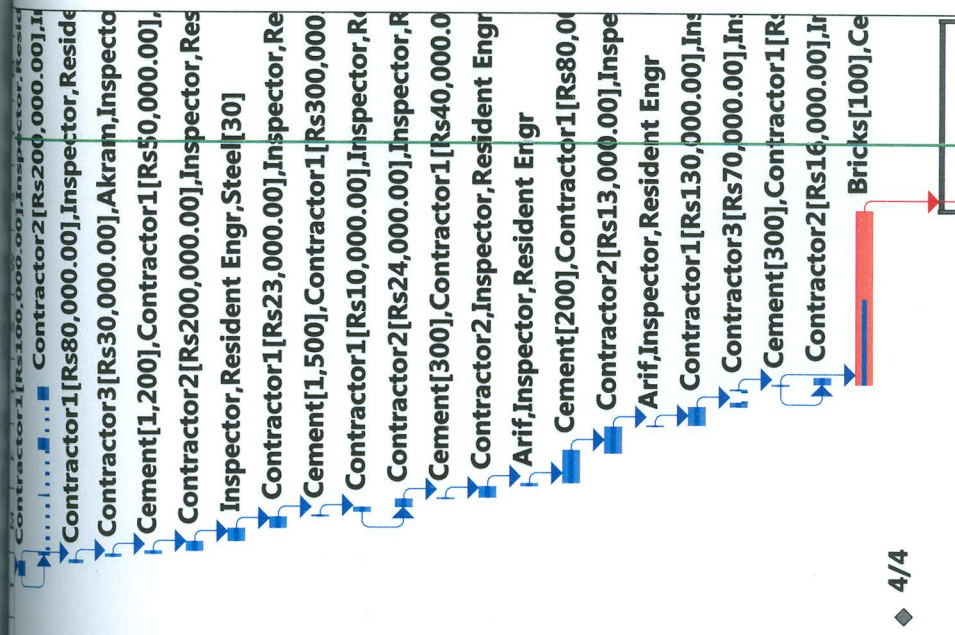
1. The approval of drawings from the design company shall be the responsibility of the Contractor.
2. Civil design, approvals and execution shall be carried out by the Owner.
3. The Contractor shall provide relevant information to ensure that the civil works are according to the project requirements.
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.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
PENTA SQUIRE DHA																								
Planning & Design																								
Architectural design																								
Proposed Architectural design																								
Submission of design																								
Review of design																								
Recommended changes																								
Approval of recommended changes																								
Redesign as per approved changes																								
Resubmission																								
Design review																								
Final approval																								
Architectural design complete																								
Structural design																								
Soil Investigation																								
Structural Design																								
Submission of detailed design																								
Design review																								
Recommended changes																								
Approval of recommended changes																								
Resubmission																								
Design review																								
Final approval																								
Structural design complete																								

Project: Final project BUL
Date: Sun 1/15/17

Page 1

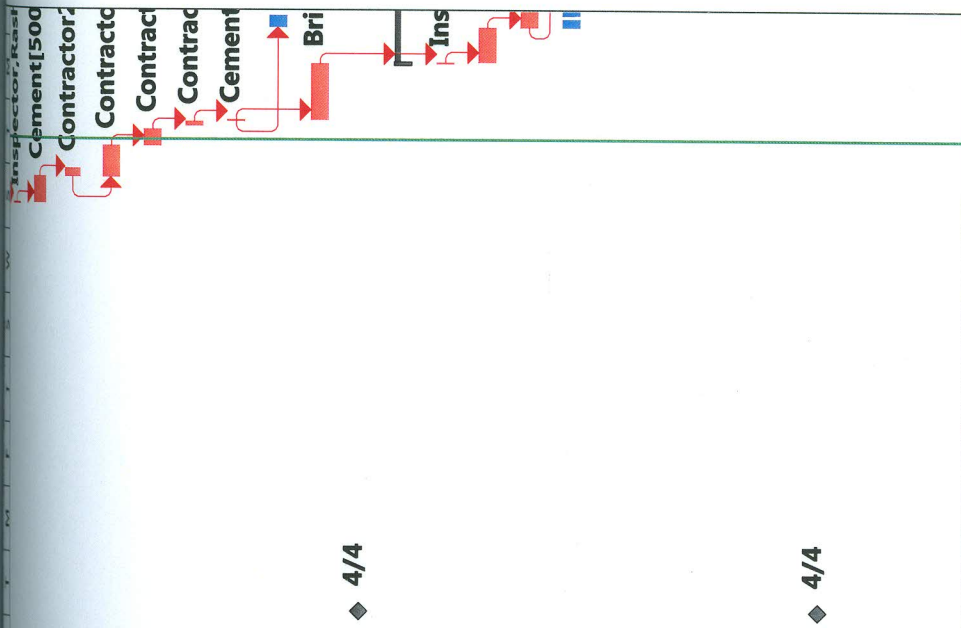
49	4.1.2	✓	Compaction & leveling of foundations
50	4.1.3	✓	Cutting of steel rebars
51	4.1.4	✓	Placing sand layer
52	4.1.5	✓	Anti- termite spray
53	4.1.6	✓	Placing & laying of lean concrete
54	4.1.7	✓	P/L water proof membrane
55	4.1.8	✓	Fabrication of footing steel
56	4.1.9	✓	Shuttering of footing
57	4.1.10	✓	P/L of footing concrete
58	4.1.11	✓	Removal of shuttering
59	4.1.12	✓	Shuttering of retaining wall
60	4.1.13	✓	P/L of concrete
61	4.1.14	✓	Removal of shuttering
62	4.1.15	✓	Layout of columns & inspection
63	4.1.16	✓	Steel fabrication, shuttering & pouring of
64	4.1.17	✓	Shuttering of basement slab & lift well
65	4.1.18	✓	Inspection of shuttering
66	4.1.19	✓	Fabrication of steel
67	4.1.20	✓	Placing of PVC pipes
68	4.1.21	✓	Pooring of concrete
69	4.1.22	✓	Removal of shuttering
70	4.1.23	✓	Brick work
71	4.2	✓	Basement grey structure complete
72	4.3	✓	Ground Floor



4/4

Project: Final project BUL Date: Sun 1/15/17	Task	Inactive Summary	External Tasks
	Split	Manual Task	External Milestone
	Milestone	Duration-only	Deadline
	Summary	Manual Summary Rollup	Critical
	Project Summary	Manual Summary	Critical Split
	Inactive Task	Start-only	Progress
	Inactive Milestone	Finish-only	Manual Progress

73	4.3.1	Layout of ground floor plan
74	4.3.2	Fabrication of column steel, shuttering & Removal of shuttering
75	4.3.3	Shuttering of ground floor slab & lift well
76	4.3.4	Fabrication of steel
77	4.3.5	Placing of PVC pipes
78	4.3.6	Pooring of concrete
79	4.3.7	Removal of shuttering
80	4.3.8	Brick work
81	4.3.9	Ground floor grey structure complete
82	4.4	1st Floor
83	4.5	Layout of 1st floor plan
84	4.5.1	Fabrication of column steel, shuttering & Shuttering of 1st floor slab & lift well
85	4.5.2	Inspection of shuttering
86	4.5.3	Fabrication of steel
87	4.5.4	Placing of PVC pipes
88	4.5.5	Pooring of concrete
89	4.5.6	Removal of shuttering
90	4.5.7	Brick work
91	4.5.8	1st floor grey structure complete
92	4.5.9	2nd Floor
93	4.6	Layout of 2nd floor plan
94	4.7	Steel fabrication, shuttering & pouring of
95	4.7.1	
96	4.7.2	



Project: Final project BUL

Date: Sun 1/15/17

Task

Split

Milestone

Summary

Project Summary

Inactive Task

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

External Tasks

External Milestone

Deadline

Critical

Critical Split

Progress

Manual Progress

Page 4

97	4.7.3	Shuttering of floor slab & lift well
98	4.7.4	Inspection of shuttering
99	4.7.5	Fabrication of steel
100	4.7.6	Placing of PVC pipes
101	4.7.7	Pooring of concrete
102	4.7.8	Removal of shuttering
103	4.7.9	Brick work
104	4.8	2nd floor grey structure complete
105	4.9	Mumty
106	4.10	Mumty plan complete
107	4.11	Finishing works
108	4.11.1	Interior Finishing
109	4.11.1.1	Plumbing, Electrical, HVAC
110	4.11.1.1.1	Mumty floor
111	4.11.1.1.2	2nd floor
112	4.11.1.1.3	1st floor
113	4.11.1.1.4	Basement
114	4.11.1.2	Plaster work
115	4.11.1.2.1	Mumty floor
116	4.11.1.2.2	2nd floor
117	4.11.1.2.3	1st floor
118	4.11.1.2.4	Basement
119	4.11.2	Ceiling, Floor, Wood works, Paint etc.
120	4.11.2.1	Basement finishing works

◆ 4/4

◆ 4/4

Project: Final project BUL

Date: Sun 1/15/17

Task

Split

Milestone

Summary

Project Summary

Inactive Task

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

External Tasks

External Milestone

Deadline

Critical

Critical Split

Progress

Manual Progress

Page 5

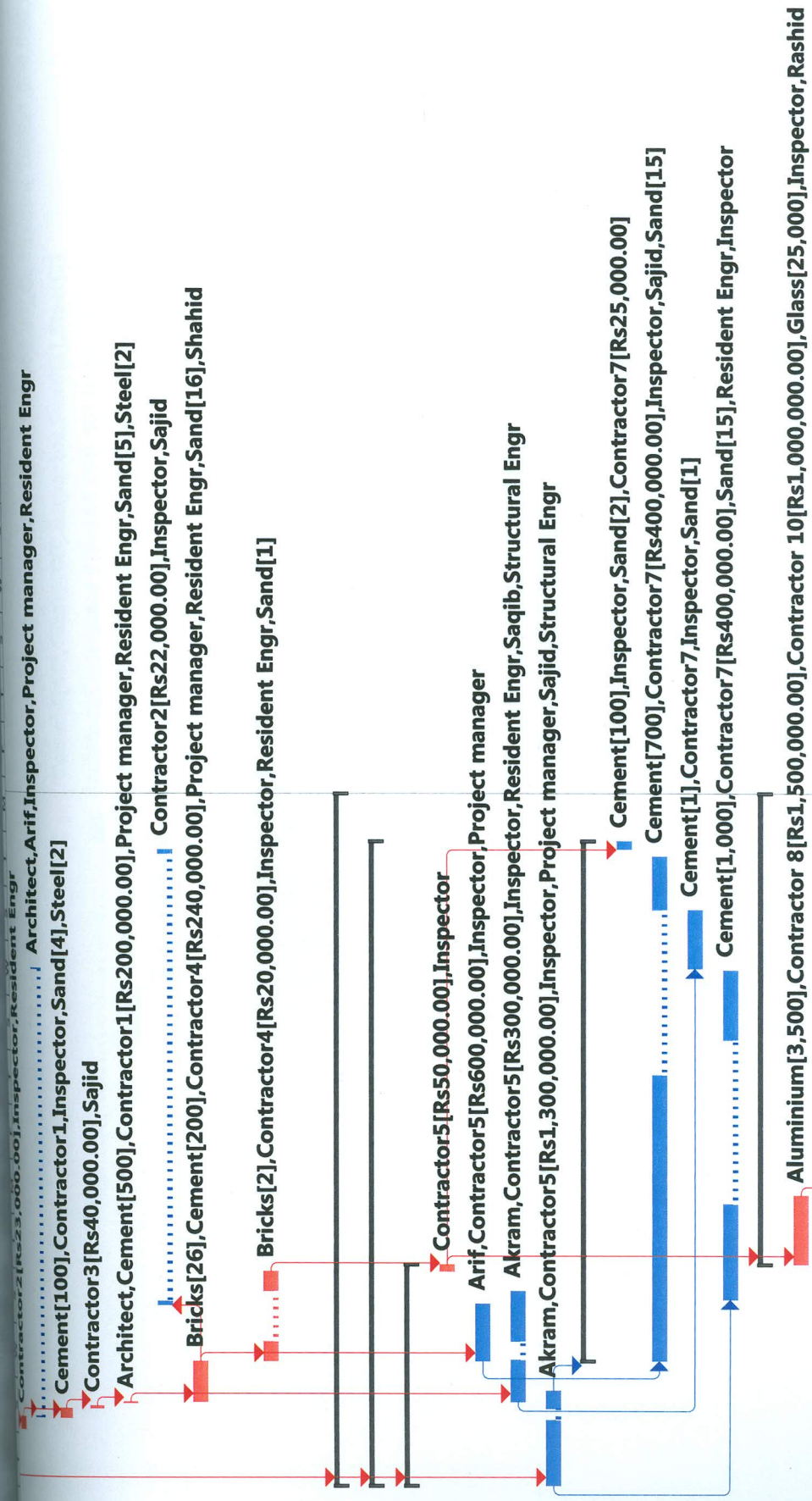
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Project: Final project BUL Date: Sun 1/15/17	Task Split Milestone Summary Project Summary Inactive Task Inactive Milestone	Inactive Summary Manual Task Duration-only Manual Summary Rollup Manual Summary Start-only Finish-only	External Tasks External Milestone Deadline Critical Critical Split Progress Manual Progress	
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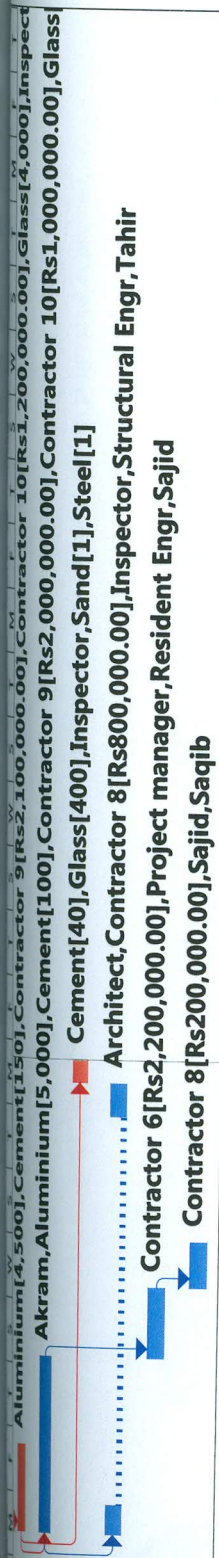
Inspector, Resident Engr, Saqib
Cement[500], Contractor1[Rs100,000.00], Inspector, Resident Engr, Sand[8], Steel[6]
Contractor2[Rs35,000.00], Resident Engr, Shahid
Inspector, Project manager, Resident Engr, Saqib
Arif, Contractor1[Rs2,500.00], Steel[3]
Contractor3[Rs45,000.00], Project manager, Sajid
Cement[1], Contractor1[Rs50,000.00], Inspector, Kashif[Rs4,000.00], Project manager, Resident Engr, Sand[6]
Bricks[25], Cement[300], Contractor4[Rs200,000.00], Project manager, Sand[10], Shahid
Inspector, Kashif, Resident Engr, Shahid
Cement[100], Contractor1[Rs20,000.00], Contractor2[Rs30,000.00], Inspector, Resident Engr, Sand[6], Steel[2]

Inspector, Resident Engr, Saqib
Cement[500], Contractor1[Rs100,000.00], Inspector, Resident Engr, Sand[8], Steel[6]
Contractor2[Rs35,000.00], Resident Engr, Shahid
Inspector, Project manager, Resident Engr, Saqib
Arif, Contractor1[Rs2,500.00], Steel[3]
Contractor3[Rs45,000.00], Project manager, Sajid
Cement[1], Contractor1[Rs50,000.00], Inspector, Kashif[Rs4,000.00], Project manager, Resident Engr, Sand[6]
Bricks[25], Cement[300], Contractor4[Rs200,000.00], Project manager, Sand[10], Shahid
Inspector, Kashif, Resident Engr, Shahid
Cement[100], Contractor1[Rs20,000.00], Contractor2[Rs30,000.00], Inspector, Resident Engr, Sand[6], Steel[2]

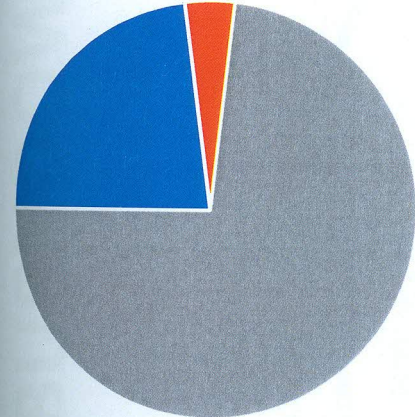
Project: Final project BUL Date: Sun 1/15/17	Task	Inactive Summary	Inactive Summary	External Tasks
	Split	Manual Task	Manual Task	External Milestone
	Milestone	Duration-only	Duration-only	Deadline
	Summary	Manual Summary Rollup	Manual Summary Rollup	Critical
	Project Summary	Manual Summary	Manual Summary	Critical Split
	Inactive Task	Start-only	Start-only	Progress
	Inactive Milestone	Finish-only	Finish-only	Manual Progress



Project: Final project BUL Date: Sun 1/15/17		Task	Task	External Tasks
Split	Inactive Summary	External Milestone	External Milestone	
Milestone	Manual Task	Duration-only	Deadline	
Summary	Manual Summary Rollup	Manual Summary	Critical	
Project Summary	Manual Summary	Start-only	Critical Split	
Inactive Task	Finish-only	Progress	Progress	
Inactive Milestone		Manual Progress	Manual Progress	



Project: Final project BUL Date: Sun 1/15/17		Task Split Milestone Summary Project Summary Inactive Task Inactive Milestone	Inactive Summary Manual Task Duration-only Manual Summary Rollup Manual Summary Start-only Finish-only	External Tasks External Milestone Deadline Critical Critical Split Progress Manual Progress

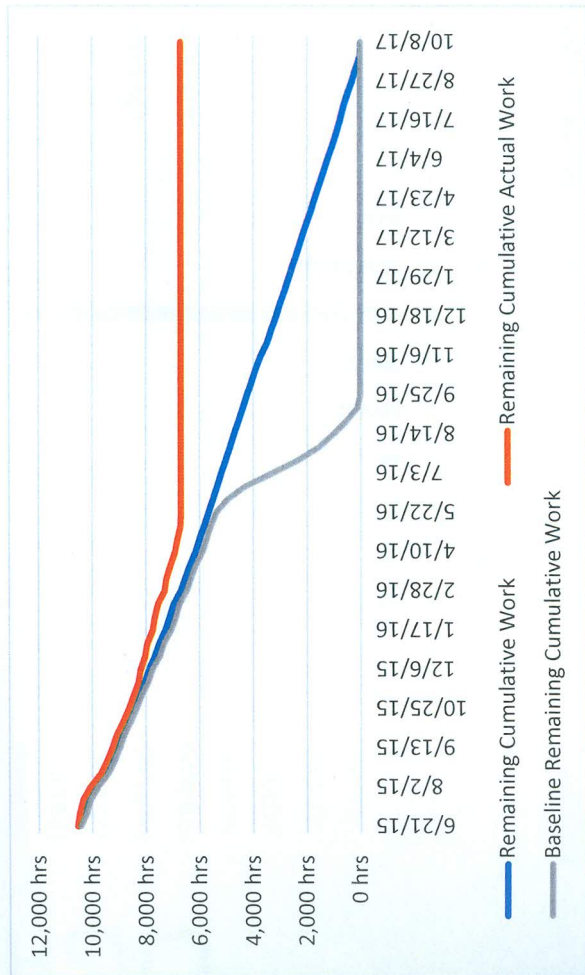


■ Status: Complete ■ Status: Late
■ Status: Future Task

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
PENTA SQUIRE DHA	Mon 11/16/15	Fri 10/20/17	0%	0 hrs	
Architectural design complete	Mon 11/16/15	Mon 11/16/15	0%	0 hrs	
Planning & Design Completed	Mon 11/16/15	Mon 11/16/15	0%	0 hrs	
Advertisement	Thu 3/24/16	Thu 3/24/16	0%	0 hrs	Lumsum
Procurement Completed	Fri 2/5/16	Fri 2/5/16	0%	0 hrs	
Brick work	Tue 8/23/16	Mon 12/5/16	50%	60 hrs	Bricks[100], Cement[500], Contractor4[Rs 600,000.00], Project manager[20%], Resident Engr[50%], Sand[11]
Basement grey structure complete	Mon 4/4/16	Mon 4/4/16	0%	0 hrs	
Layout of ground floor plan	Tue 12/6/16	Tue 12/6/16	0%	24 hrs	Inspector, Rashid, Resident Engr
Fabrication of column steel, shuttering & pouring of concrete	Wed 12/7/16	Thu 12/22/16	0%	96 hrs	Cement[500], Contractor1, Crush[3], Inspector, Sand[6], Steel[3]
Removal of shuttering	Fri 12/23/16	Tue 12/27/16	0%	24 hrs	Contractor2[Rs20,000.00], Inspector
Shuttering of ground floor slab & lift well	Fri 12/23/16	Tue 1/10/17	0%	160 hrs	Contractor3[Rs24,000.00], Inspector, Resident Engr
Ground floor grey structure complete	Mon 4/4/16	Mon 4/4/16	0%	0 hrs	
1st floor grey structure complete	Mon 4/4/16	Mon 4/4/16	0%	0 hrs	
2nd floor grey structure complete	Mon 4/4/16	Mon 4/4/16	0%	0 hrs	

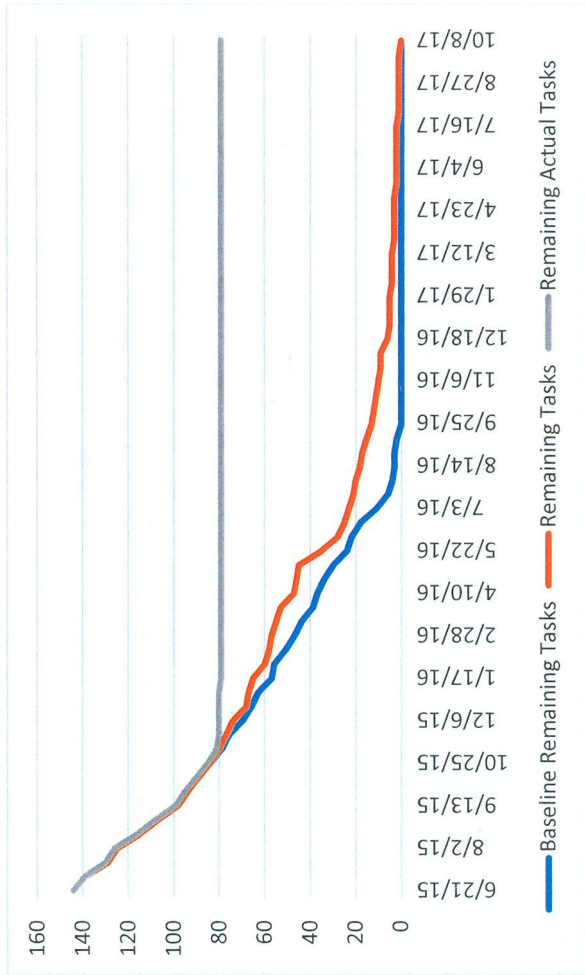
BURNDOWN



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?

[Try setting a baseline](#)



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.

[Learn more](#)

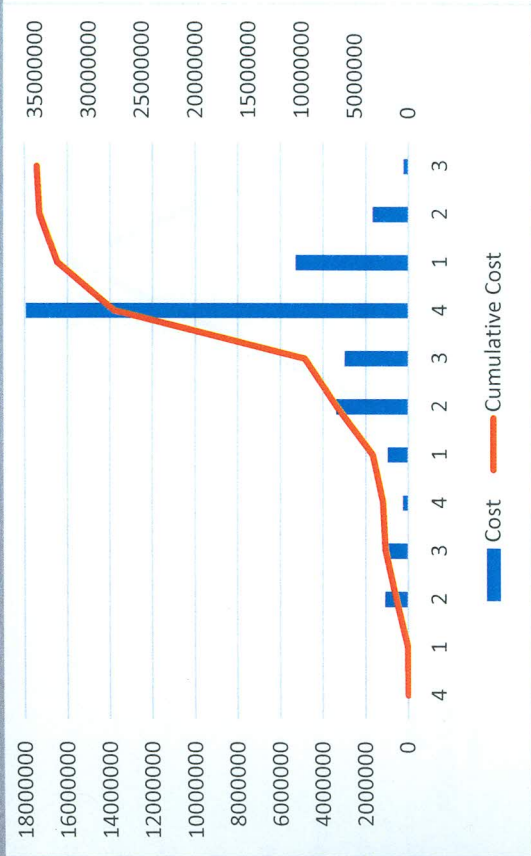
Rs50,000.00 Rs0.00

Rs34,780,85 Rs34,830,85

0.00 0.00

The chart shows the project's cumulative cost and the cost per quarter. To see the costs for a different time period, select the Edit option from the Field List.

The table below shows cost information for all top-level tasks. To see cost stats for all tasks, set the Outline Level in the Field List.

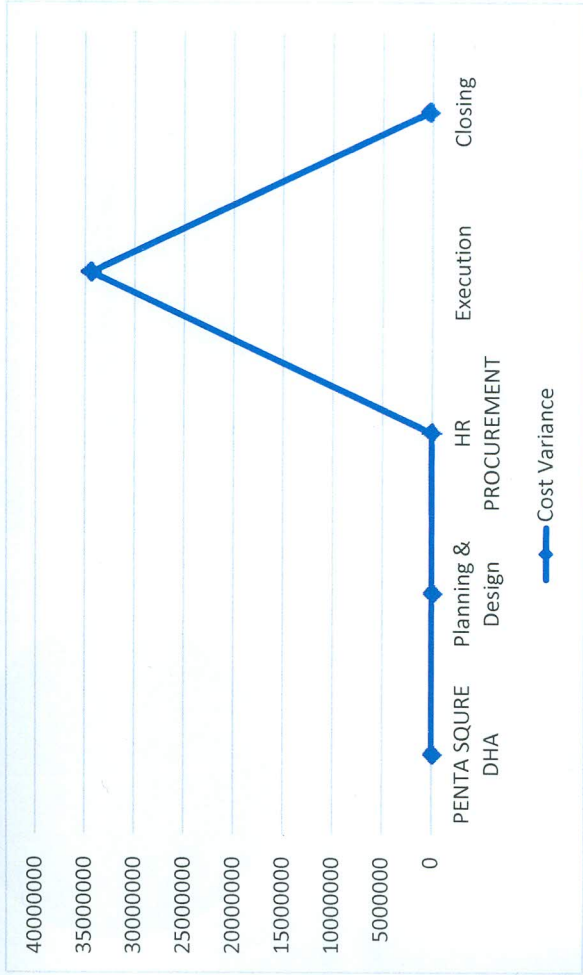


Name	Remaining Cost	Actual Cost	Cost	ACWP	BCWP	BCWS
PENTA SQUIRE DHA	Rs0.00	Rs0.00	Rs0.00	Rs0.00	Rs0.00	Rs0.00
Planning & Design	Rs0.00	Rs0.00	Rs0.00	Rs404,000.00	Rs0.00	Rs0.00
HR PROCUREMENT	Rs0.00	Rs50,000.00	Rs50,000.00	Rs440,800.00	Rs0.00	Rs0.00
Execution	Rs34,436,850.00	Rs0.00	Rs34,436,850.00	Rs1,316,900.00	Rs0.00	Rs0.00
Closing	Rs344,000.00	Rs0.00	Rs344,000.00	Rs0.00	Rs0.00	Rs0.00

COST OVERRUNS

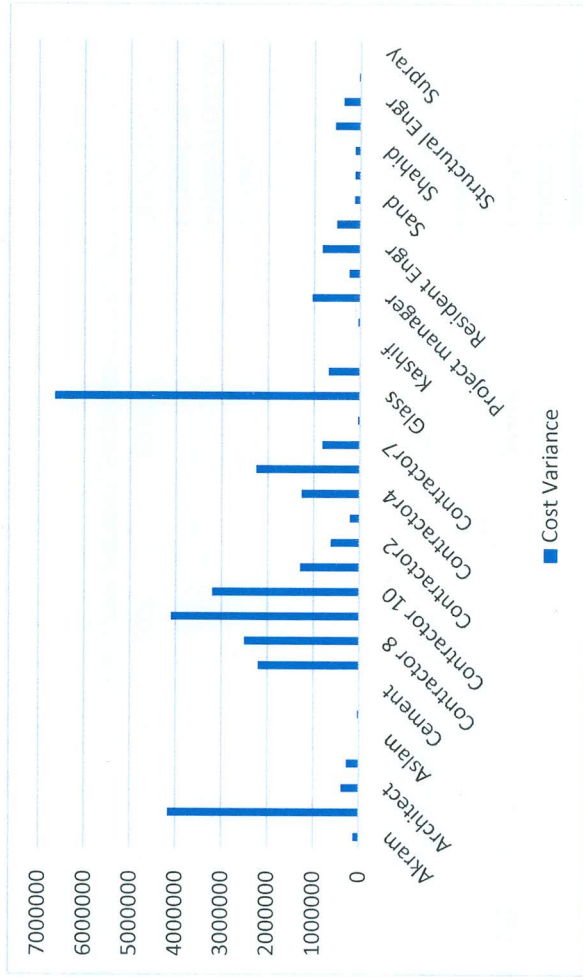
TASK COST VARIANCE

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



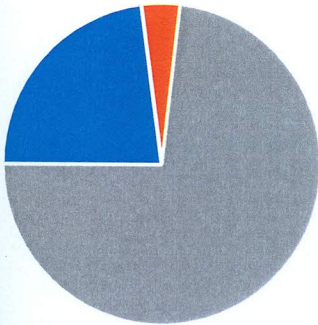
RESOURCE COST VARIANCE

Cost variance for all the work resources.



Name	% Complete	Cost	Baseline Cost	Cost Variance
PENTA SQUIRE DHA	0%	Rs0.00	Rs0.00	Rs0.00
Planning & Design	99%	Rs0.00	Rs0.00	Rs0.00
HR PROCUREMENT	98%	Rs50,000.00	Rs0.00	Rs50,000.00
Execution	17%	Rs34,436,850.00	Rs0.00	Rs34,436,850.00
Closing	0%	Rs344,000.00	Rs0.00	Rs344,000.00

Name	Cost	Baseline Cost	Cost Variance
Akram	Rs129,600.00	Rs0.00	Rs129,600.00
Architect	Rs384,000.00	Rs0.00	Rs384,000.00
Arif	Rs273,600.00	Rs0.00	Rs273,600.00
Aslam	Rs0.00	Rs0.00	Rs0.00
Inspector	Rs684,800.00	Rs0.00	Rs684,800.00
Project manager	Rs1,044,000.00	Rs0.00	Rs1,044,000.00
Rashid	Rs237,600.00	Rs0.00	Rs237,600.00
Resident Engr	Rs828,800.00	Rs0.00	Rs828,800.00
Sajid	Rs518,400.00	Rs0.00	Rs518,400.00
Sanib	Rs117,600.00	Rs0.00	Rs117,600.00



■ Status: Complete ■ 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
Brick work	Tue 8/23/16	Mon 12/5/16	50%	60 hrs	Bricks[100], Cement[500], Contractor4[Rs600,000.00], Project manager[20%], Resident Engr[50%], Sand[11]
Layout of ground floor plan	Tue 12/6/16	Tue 12/6/16	0%	24 hrs	Inspector, Rashid, Resident Engr
Fabrication of column steel, shuttering & pouring of concrete	Wed 12/7/16	Thu 12/22/16	0%	96 hrs	Cement[500], Contractor1, Crush[3], Inspector, Sand[6], Steel[3]
Removal of shuttering	Fri 12/23/16	Tue 12/27/16	0%	24 hrs	Contractor2[Rs20,000.00], Inspector
Shuttering of ground floor slab & lift well	Fri 12/23/16	Tue 1/10/17	0%	160 hrs	Contractor3[Rs24,000.00], Inspector, Resident Engr
Fabrication of steel	Wed 1/11/17	Fri 1/20/17	0%	64 hrs	Contractor1, Resident Engr, Steel[1]
Placing of PVC pipes	Mon 1/23/17	Wed 1/25/17	0%	24 hrs	Contractor3, Saqib
Pouring of concrete	Thu 1/26/17	Thu 1/26/17	0%	16 hrs	Cement[400], Contractor1, Crush[2], Inspector, Resident Engr, Sand[5]
Brick work	Fri 1/27/17	Wed 3/1/17	0%	576 hrs	Bricks[24], Cement[800], Contractor4

Fabrication of column steel, shuttering & pouring of concrete	Fri 3/3/17	Thu 3/23/17	0%	240 hrs	Cement[500], Contractor1[Rs100,000.00], Inspector, Resident	Engr, Saqib
					Engr, Sand[8], Steel [6]	
Shuttering of 1st floor slab & lift well	Fri 3/24/17	Tue 4/11/17	0%	208 hrs	Contractor2[Rs35,000.00], Resident	Engr, Shahid
Fabrication of steel	Wed 4/12/17	Fri 4/21/17	0%	64 hrs	Arif, Contractor1[Rs2,500.00], Steel [3]	
Placing of PVC pipes	Mon 4/24/17	Wed 4/26/17	0%	48 hrs	Contractor3[Rs45,000.00], Project manager, Sajid	
Pouring of concrete	Thu 4/27/17	Thu 4/27/17	0%	24 hrs	Cement[1], Contractor1[Rs50,000.00], Inspector, Kashif [Rs4,000.00], Project manager, Resident	Engr, Sand[6]
Brick work	Fri 4/28/17	Mon 5/15/17	0%	192 hrs	Bricks[25], Cement [300], Contractor4 [Rs200,000.00], Project manager, Sand[10], Shahid	
Layout of 2nd floor plan	Tue 5/16/17	Wed 5/17/17	0%	48 hrs	Inspector, Kashif, Resident	Engr, Shahid
Steel fabrication, shuttering & pouring of column	Thu 5/18/17	Mon 6/5/17	0%	208 hrs	Cement[100], Contractor1[Rs20,000.00], Contractor2[Rs30,000.00], Inspector, Resident	Engr, Sand[6], Steel

Fabrication of steel	Thu 6/15/17	Wed 6/21/17	0%	40 hrs	Cement[100], Contractor1, Inspector, Sand[4], Steel[2]
Placing of PVC pipes	Thu 6/22/17	Fri 6/23/17	0%	16 hrs	Contractor3[Rs40,000.00], Sajid
Pooring of concrete	Mon 6/26/17	Mon 6/26/17	0%	24 hrs	Architect, Cement[500], Contractor1[Rs200,000.00], Project manager, Resident Engr, Sand[5], Steel [2]
Brick work	Tue 6/27/17	Tue 7/25/17	0%	504 hrs	Bricks[26], Cement [200], Contractor4 [Rs240,000.00], Project manager, Resident Engr, Sand[16], Shahid
Mumty	Wed 7/26/17	Wed 9/27/17	0%	160 hrs	Bricks[2], Contractor4[Rs20,000.00], Inspector, Resident Engr, Sand[1]
Mumty floor	Thu 9/28/17	Mon 10/2/17	0%	24 hrs	Contractor5[Rs50,000.00], Inspector
Basement finishing works	Tue 10/3/17	Mon 11/20/17	0%	560 hrs	Aluminium[3,500], Contractor, 8[Rs1,500,000.00], Contractor, 10[Rs1,000,000.00], Glass[25,000], Inspector, Rashid
1st floor finishing works	Tue 11/21/17	Fri 1/12/18	0%	624 hrs	Aluminium[4,500], Cement[150], Contractor, 9[Rs2,100,000.00], Contractor, 10[Rs1,200,000.00], Glass[4,000] In

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