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PROJECT REPORT

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SEMESTER: Spring-2017, MSPM -III

PROGRAM: MS (PROJECT MANAGEMENT)

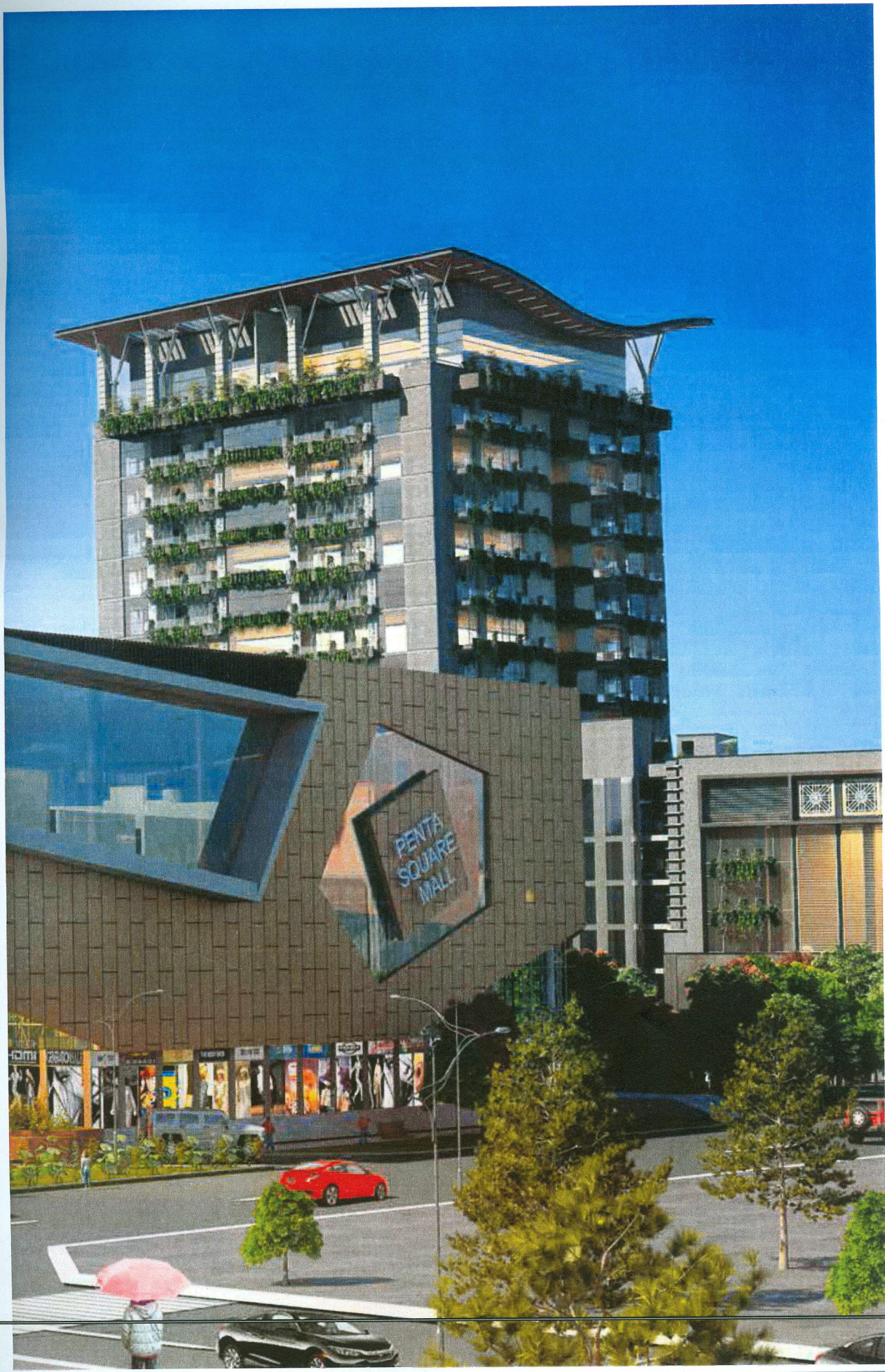
PENTA FIVE SQUARE BY MAAKSON



BAHRIA UNIVERSITY LAHORE CAMPUS

SUBMITTED TO: Mr. Muhammad Faisal Shahzad

SUBMISSION DATE: 11-Jun-2017





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

CERTIFICATE

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

It is witnessed that Mr. Muhammad Waqar Enrollment: 03-298161-027 & Mr. Muhammad Mustafa Khan Enrollment: 03-298161-038 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 / She, in case of participation in organization's project, has contributed fully / partially in the following project(s) and within the highlighted fields (planning, scheduling, earned value analysis, performance monitoring, claim debugging):

1. PLANNING
2. SCHEDULING
3. EVM

He / She, 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, report

M. Wasim Khan
Chief Executive



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On the successful accomplishment of the project we would like to Thanks the Almighty ALLAH after that our trainer Sir. Muhammad Faisal Shahzad helped us a lot in each and every single matter. His suggestions and instructions is the major contribution towards the completion of the project.

We would also thankful to our parents, friends and classmates who have helped us in this project completion.

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Abstract

Our project is to carry out Planning and Scheduling of Penta five square using Primavera P6, a modern world tool to implement the best Project Management Practices dictated by PMI. Primavera is enterprise project portfolio management software. It includes project management, product management, collaboration and control capabilities and integrates with other enterprise software such as Oracle and SAP's ERP systems. Report includes the brief history of the Organization that undertook the said project, context in which project was carried and most importantly it discusses how Planning & Scheduling of the said project was carried how using Primavera P6. Report also includes necessary supporting the literature, the conclusions and recommendations being rendered after having the work on Primavera and the understanding/issues/familiarity with new features (CBT Log) that was perceived/realized during working on Primavera.

CHAPTER-1: Introduction

1.1: The Company

Over the past seven decades of independence of Pakistan, M.A Aleem Khan and Sons (Pvt) Ltd entered almost a non-existing construction business of Pakistan and ever-since MAAKSONS has never looked back and emerge as one of the most prime and respected general contracting companies of Pakistan.

MAAKSONS's strongest trait has been its commitment to the clients, vendors and to each other that has contributed towards its success national and international market place. It is a natural consequence of the value s that has guided MAAKSONS since its inception in 1951. Its growing reputation for excellence, resourcefulness and responsiveness has been achieved through hard work and by doing things that the company does the best. The young generation of its director is deeply indulged in the business and has provided an impetus through their innovating patricidal ideas.

The board of Directors after necessary due-diligence having observed change in the market trends and seeing steady growth in the economy of the country restructured the organization to

accelerate its business development efforts and creating an in house Architectural Division to meet the growing needs of the clientage and reach select international market.

1.1.1 Vision

MAAKSONS's vision is to strengthen its business, develop new skills, generate new activities and respond to the changing needs of local and international client.

1.1.2 Mission

To be the world's most client-centric company, where they discover dedication, commitments, superior quality of work and customer service delivered with a sense of individual pride enabling us to build an unparalleled reputation for excellence.

1.1.3 Corporate Strategy

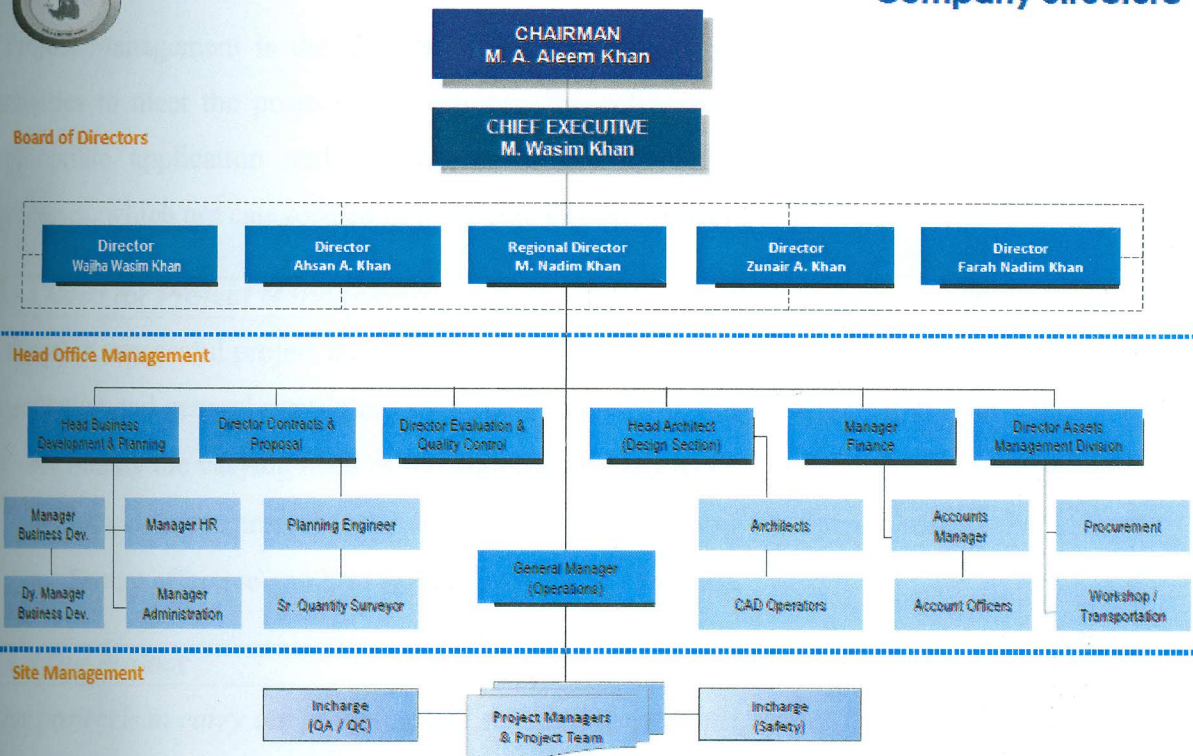
"As a business partner MAAKSONS will provide the engineering expertise and dedication to build your project from inception to completion. MAAKSONS work is ensured according to international standards and compliance is ensured through quality assurance system. Through careful planning and detailed project execution, our pool of experience and qualifies professional ensure to provide customized solution as per client requirements.

As a professional project management consultant our main objective is to keep owner well informed and advise them to make the best decision possible. We accumulate a professional team of people whose job is to maximize the productivity of work and minimize its cost effect where possible. Our capability to calculate accurate budgets, creating realistic schedule, obtaining agency entitlements and coordination between the project team has helped save our clients substantial amount of capital. With a professional understanding of design construction, legal obligations and attention to detail, our goal is to provide satisfaction to our clients with in the budget time but above their expectations "

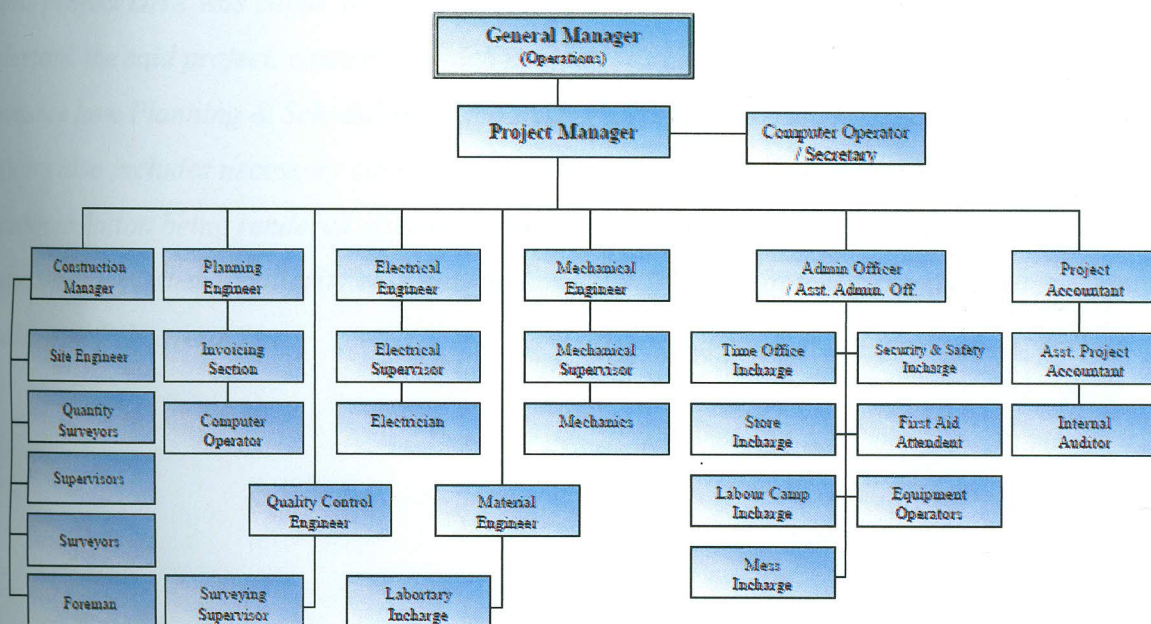
1.1.4 Organizational Chart



Company Structure



Site Organization



1.2 Project Management

According to PMBOK 5TH Edition

“Project Management is the application of skills, tools, knowledge and techniques to project activities to meet the project requirements. Project management is accomplished through the appropriate application and integration of the 47 logically grouped project management processes, which are categorized in 5 process Group” (PMI)

1.3 Need for Project Management

Interest in successful project administration will have various advantages to both the host association and general population required in conveying the undertaking. It will.

- Satisfy the varying need of the undertaking partners
- Provide more prominent probability of accomplishing the fancied result
- Ensure effective and best esteem utilization of assets

1.4 Our Project

Our project is to carry out planning and scheduling of Penta Square in MAAKSONS using Primavera P6, a modern world tool to implement the best Project Management Practices dictated by PMI

In this project DHA was client. Report include the brief history of the organization that undertook the said project, context in which project was carried and most importantly it discusses how Planning & Scheduling of the said project was carried how using Primavera p6. Reports also includes necessary supporting the literature, the a conclusions and recommendation being rendered after having the work on Primavera and the understanding/issues/familiarity with new features (CBT Log) that was perceived/realized during working on Primavera.

1.5 Project Charter

Project Charter

Authorizations	Name	Function	Date	Signature
Author	Lt col (r) Khalid Hamid	Project Manager	18-04-2016	-----
Approved	M. Waseem Khan	CEO	18-04-2016	-----
Project Background	A new concept in the field of living, a residential and commercial project of its kind Penta Square. Penta five Square has offer the most advance residential, retail and corporate facilities of the modern Era which is going to be an essence if business & trade admiration. It provides you the opportunity to invest not in real-estate but in lifestyle.			
Proposed Start Date	18-04-2016	Proposed End Date	18-10-2017	
Project Objectives	To build a residential and commercial project of its kind Penta Square that will provide the residential, retail and corporate facilities of modern era, and provides a good opportunity for investment.			
Key outputs/Deliverables	Various size of commercial plots, residential, retail and corporate facilities of the modern Era.			
Project Scope	Penta Square has develop with all amenities and facilities as per plan			
Critical Success factor	Completion as per Scope Completion as per Time Completion within Budget			

	<i>Efficiency of the Contractor</i>
<i>Methodology</i>	<i>Establishment and Development of Penta Five Square as per laid down procedure by DHA Lahore</i>
<i>Executing Agency</i>	<i>MAAKSONS's</i>
<i>Project Sponsor</i>	<i>DHA LAHORE</i>
<i>High Level Estimate of Project Cost</i>	<i>Rs.1,366.00 MILLION</i>
<i>Issues/Risks</i>	<i>1. TMA may delay NOC</i> <i>2. Land Owner may violate the contract</i> <i>3. Sponsor may not be able to generate sales on advance booking causing liquidity issues</i> <i>4. LESCO may delay the electrification of Penta Square due to electricity shortfall in the country</i> <i>5. Time to market pressure may cause the project to short change up-front work or make decision will decrease the long term flexibility of the system</i>
<i>Assumptions</i>	<i>NOC requirements are met. Similarly performs electrification as per tentative plan.</i>
<i>Constraints and Dependencies</i>	<i>Project Success lies on the timely issuance of NOC, timely electrification, smooth supply of construction material and timely payments to daily</i>

	<i>wages labor.</i>	
Reporting	Frequency <i>Weekly</i>	Who <i>Project Manager</i>
<u>Meetings</u>		
<i>Steering Committee</i>	<i>Once in a week</i>	<i>CEO, General Manager, Project Manager</i>
<i>Project Team Meeting</i>	<i>Once in a Week</i>	<i>Project Manager and Project Team</i>
<u>Reports</u>		
<i>Progress Reports</i>	<i>Every Week</i>	
<i>Closure Reports</i>	<i>At the End of Each Task</i>	

1.5.2 Introduction

As per PMI 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. The project charter should include the needs, scope, justification, and resource commitment. It is created during the initiating phase of the project.

1.5.7 Project Milestones

- *Procurement Completed*
- *Basement Grey structure completed*
- *1st floor Grey Structure completed*
- *2nd floor Grey Structure completed*
- *Mumtay plan Completed*

1.5.8 Stakeholders

Sr. #	Stakeholder	Power	Interest	Priority
1	Chief Executive officer	High	High	Manage Closely
2	Board of Directors	High	High	Manage Closely
3	PMU Construction	High	High	Manage Closely
4	Manager (PMU)	High	High	Manage Closely'
5	Project Manager and Team	High	High	Manage Closely
6	GDA and construction Govt	Low	High	Keep Informed
7	Vendors	Low	High	Keep Informed
8	Sub-Contractors	Low	High	Keep Informed
9	Residents of the DHA colony	High	Low	Keep Satisfied

1.5.10 Project Organization

Board of director

Sr.No#	Name	Designation
1	M.A.Aleem Khan	Chairman
2	M. Waseem Khan	Chief Executive
3	M.Nadeem khan	Director
4	Ahasan Aleem Khan	Director
5	Zunair Aleem Khan	Director
6	Wajiha Waseem Khan	Director
7	Faraha Nadeem khan	Director

Management

Sr.No	Name	Designation
1	M. Waseem Khan	Chief Executive
2	M Nadim Khan	Regional Director
3	Ahsan Aleem Khan	Director Business Development & Planning

4	<i>Zunair Aleem Khan</i>	<i>Director Project Finance</i>
5	<i>Irfanullah Raja</i>	<i>Head business Development & Planning</i>
6	<i>Col (r) Nadeem Shaukat</i>	<i>General Manager Operation</i>
7	<i>Javaid N. Wafa</i>	<i>Director Contracts & Operation</i>
8	<i>Lt col (r) Khalid Hamid</i>	<i>Project Manager</i>
9	<i>Aamir Nadeem Chuadhary</i>	<i>Construction Manager</i>
10	<i>Mannan A. Sheikh</i>	<i>Sr. Quantity surveyor</i>

CHAPTER-2: Primavera

2.1 About Software

Primavera Systems Inc. provides software solution for Construction, Architecture and Engineering Industries. Most relevant and widely used world over Project Management software solution of Primavera Systems Inc. is Primavera P6.

Primavera P6 offers issue tracking, agile Project Management, Collaboration, comprehensive Reporting and traditional Project Management functionality for all size of businesses whether small or large.

Primavera P6 has custom reports and dashboards for your ease. However, Primavera P6 does not offer customization. Your business processes and Project Management Practices should comply with the Primavera P6 requirements.

The following are major areas to be covered while using the Primavera Software.”

- Project Planning & Scheduling
- Project Costing
- Project Baselines
- Project Tracking
- Project Reports
- Project Completion

2.2 Enterprise Project Structure (EPS)

Enterprise Project Structure is a meaningful, logical and hierarchal arrangement of all projects in an organization. EPS shows the organizational area where it operates.

2.3 EPS in Primavera

Choose enterprise from menu bar, then Enterprise Project Structure

- Click on EPS name column where we want to add a new element
- Click on the add button
- Type Name & ID of EPS node and in Resource Manager field, select OBS element for new element
- Hierarchy can be changed by using arrow keys
- Close the EPS window, go to Enterprise then Projects and specify the project details of Budget, Resources and Date etc.

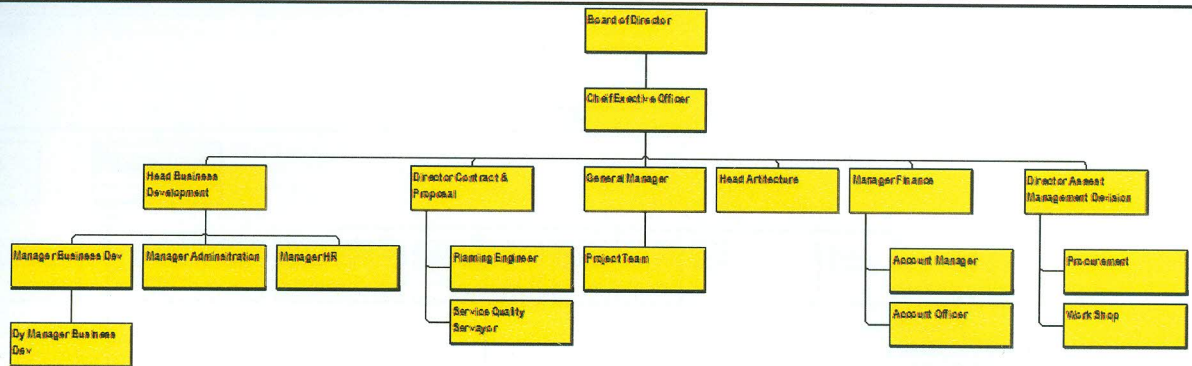
2.4 Organizational Breakdown Structure (OBS)

An organizational breakdown structure (OBS) is document that organizations use in line with its available resources and work breakdown. The OBS also indicates the reporting hierarchy of the company.

Organizational breakdown is generally denoted by dint of graphs or charts. A project or general manager is listed and underneath the Project Manager, several functional units might be there such as product development, design, procurement and production. Other sub-categories or names of employees can also be assigned against each of it. OBS can be considered as a tree; each branch of which shows a working relationships and associated communication needs. The higher a person lies in OBS, the more is the spectrum of responsibilities and authorities is.

OBS shows what each person listed in the OBS are supposed to do what in so as to get the overall project's objectives. Human Resources are generally assigned to tasks that match their interests, proficiencies & strengths. It gives responsibility and ownership to the project team. In smaller organizations, project members tend serve at multiple positions. In such cases, the importance of OBS and schedule gets to double fold for keeping people on target and make them perform well in order to get the project successfully done.

2.5 OBS in Primavera



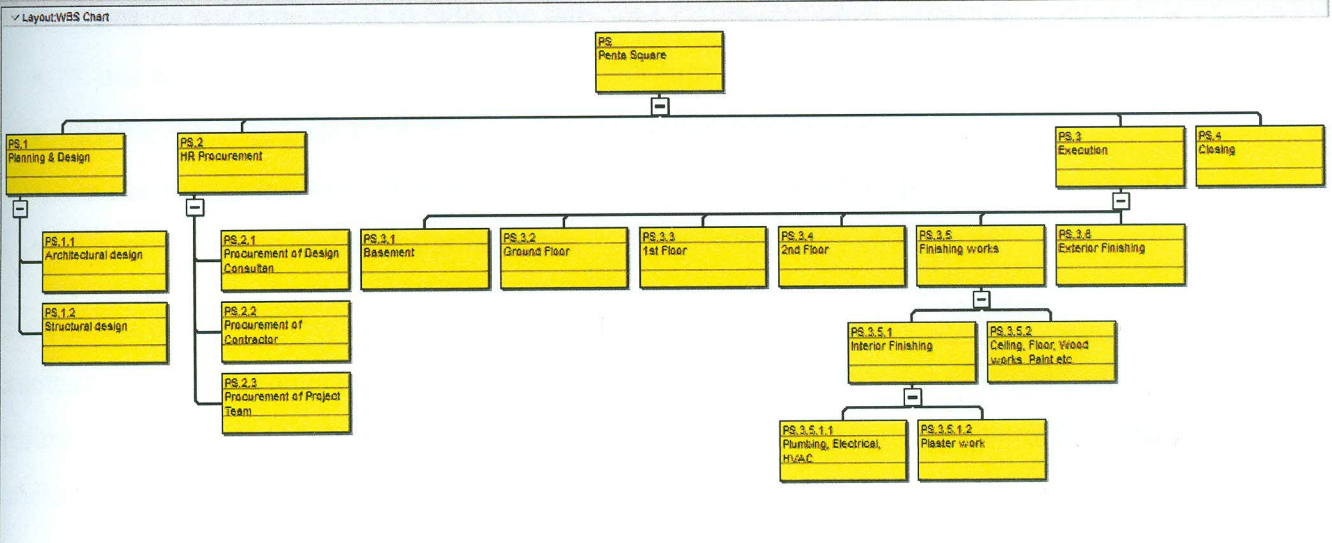
2.6 Work Breakdown Structure (WBS)

The Project Management Body of Knowledge (PMBOK) defines the work breakdown structure as a "deliverable oriented hierarchical decomposition of the work to be executed by the project team." The work breakdown structure defines the scope into manageable parts/chunks that a project team can apprehend in visual form, as each level of the work breakdown structure provides further definition and detail. An easy way to think about a work breakdown structure is as an outline or map for the specific project. A work breakdown structure originates/starts with the project as the top-level deliverable and is further broken down into sub-deliverables.

The project team defines/creates the project work breakdown structure by identifying the major deliverables and thus sub-dividing those identified deliverables into smaller levels and sub-deliverables. These sub-deliverables are further decomposed until a single person can be associated/assigned to it. The work package represents the list of tasks or "to-dos" to produce the specific part/chunk/unit of work/project.

Considering cost point of view, these work packages are assigned to various functional divisions and hence cost centers/cost heads are also managed to realize the monetary value that a project generates/realizes for the company/organization.

2.7 WBS in Primavera



2.8 Roles in Primavera

Role are project personnel job titles or skills being personified to the various person like project management , accountant etc. roles represent a resource with a certain level of proficiency set. Roles can also be assigned to specific resources to further identify that resource's skills. For example a resource may have a role of an engineer and manager. Roles are assigned to different resources and activities in various projects being carried out in the organization/company. P6 gives privilege to create/define an unlimited number of roles and organize them in a hierarchy for easier management and assignment. The set of roles we assign to an activity define the activity skills requirements.

Roles can also be temporarily assigned during the planning stages of the project to have an idea that how and certain resources are likely to affect the schedule. Once planning is matured, the roles can be replaced with resources that fulfill the role skill levels. Five proficiency levels can be assigned to roles: Master, Expert, Skilled, and Proficient and inexperienced. Roles can be assigned in the resource details window or from the roles dialog box.

- Click on enterprise from Menu Bar, and then select Roles
- Click on add button to add roles
- Enter role ID & Role name
- Hierarchy can be adjusted by using arrow keys.
- In description detail window, type description of Role's responsibility

- Click on Prices tab to add price of each roles
- Click on rate type fields to enter the rate
- Click add to insert unit/time for the role over time
- Ineffective date/time field, double click and select date from calendar
- In maximum unit/time field click and type maximum work unit per time for each roles.
- Close the window after assigning roles.

2.9 Resources in Primavera

Resource over allocation is very common in projects and needs to monitor effectively. P6 professional includes 2 tools to support this process: Resource unsafe profile being first and the Resources Assignment window being second.

2.10 Activity Codes in Primavera

An activity is generally the lowest and smallest portion of a project to be used in planning, tracking, and control. In some projects, activities may be referred to as tasks, stories (as in case of software industry mostly), work packages, or use cases etc.

Primavera gives us provision to allocate codes to the various activities of our project. Activity Codes are used to sort, group & categorize the activities based upon the projects and organization reporting requirements. Activity Codes are created and allocated at the beginning of the project. The Activity Codes can be assigned to activities and used to categorize, organize, group and sort, and filter activities to support your reporting needs.

Activity Codes can be used for the following:

- “Group and sort activities into specific categories in the activity table & layouts
- View summary bars on the Gantt Chart based on activity code values
- View and roll up activities in the activity table
- Summarize activities
- Filter activities
- Build reports in the wizard or editor
- Examples of activity codes include Phase, Location, Responsibility, Subcontractor”

Activity codes can be setup at three levels:

1. **Global** – Users can create an unlimited number of global activity codes, which are available to all activities in your P6 database. This level enables you to organize activities within a single project or across the entire enterprise project structure (EPS).
2. **EPS** – These codes are available to activities within an EPS node. Users are able to create an unlimited number of EPS level codes. Activities can be organized within a single project or across all projects sharing a common EPS node.
3. **Project** – Codes are available to activities in the project in which the codes are created. Users can create up to 500 project-level activity codes. Project codes allow you to organize and filter activities based on unique project reporting requirements.

2.11 Activity Types in Primavera

There are 6 Activity Types in Primavera as follows;

- Start Milestone
- Finish Milestone
- Resource Dependent
- Task Dependent
- Level of Effort
- WBS Summary

2.11.1 Start & Finish Milestones

Milestone denotes a point in time (event) when a pre-defined task/goal is started or achieved, i.e. a task of certain importance is either completed or started. E.g. Start/Finish of a Project, Start of execution activities/works, Completion of Phase etc.

A Start Milestone bears only a start date and no finish date a finish milestone has only a finish date and not a start date. This is because by definition, “a Milestone is just the representation of a point in time; it has no duration of its own. That is why Milestones have ‘zero’ days as duration. Also, Milestones do not consume any resources.”

2.11.2 Resource Dependent

A task whose duration is dictated by the number/amount/quantity of Resource being allocated to is called Resource Dependent activity. For example, if one particular resource can complete a task in 6 days, then two such resources can complete the same task in 3 days.

“In P6 terms, $\text{Duration} = (\text{Budgeted Units}) / (\text{Budgeted Units} / \text{Time})$ where Budgeted Units denotes the numerical value of the resource allocation.” For this type of activities, Resources are assigned to the activity based upon the Resource calendar rather than the Activity calendar. The activity’s duration chiefly dictated by the resources being required for the activity. If no resource is assigned to such an activity, the activity duration is calculated using the calendar assigned to the activity.

2.11.3 Task Dependent

This is type of activity that takes a certain amount of time to have it completed regardless of the number of resources being allocated. These activities are being performed based upon Activity Calendar rather than the Resource Calendar. For example a laptop might take 2 hours in assembly if done by 1 person. It might take 1 hour if assembled by the 2 persons. So this is a resource dependent activity. After assembling, the same laptop would take half hour to get the windows installed irrespective of the number of resources being allocated so this windows installation is a task dependent activity.

2.11.4 Level of Effort

The duration of a level of effort activity is dependent on the assigned predecessor and successor activities. The duration is calculated from the defined relationship at the predecessor to the defined relationship at the successor. These jobs span or exist as long as some other works are being performed.

2.11.5 WBS Summary

A WBS Summary spans all the activities within a WBS, starting from the start of the earliest activity to the finish of the activity finishing last in that WBS, however, no actual relationships/links need to be specified.

CHAPTER-3: Primavera Implementation on Project & Primavera Documents

3.1 Project Reports

All the following project reports are enclosed herein,

- 3.1.1 Project EPS
- 3.1.2 Project Resources
- 3.1.3 Project Gantt Chart
- 3.1.4 Project WBS Report
- 3.1.5 Project Progress Report
- 3.1.6 Project Network Diagram

3.1.1 Project EPS

Penta Squana		EPS	07-Jun-17 23:28
EPS ID	EPS Name		
 maktson	MAKSON's		
 CE	Civil Engineering		
 ES	Electrical Service		
 MS	Mechanical Service		
 HS	HVAC Service		

Penta Square		Classic Schedule Layout			10-Jun-17 04:51		
Activity ID	Activity Name	Original Duration	Remaining Duration	Schedule % Complete	Start	Finish	Total Float
PS Penta Square		537	537	0%	18-Apr-16	08-May-18	0
PS.1 Planning & Design		18	18	0%	18-Apr-16	11-May-16	0
PS.1.1 Architectural design		9	9	0%	18-Apr-16	28-Apr-16	0
A1000	Proposed Architectural de	1	1	0%	18-Apr-16	18-Apr-16	0
A1010	Submission of design	1	1	0%	19-Apr-16	19-Apr-16	0
A1020	Review of design	1	1	0%	20-Apr-16	20-Apr-16	0
A1030	Recommended changes	1	1	0%	21-Apr-16	21-Apr-16	0
A1040	Approval of recommended	1	1	0%	22-Apr-16	22-Apr-16	0
A1050	Redesign as per approve	1	1	0%	25-Apr-16	25-Apr-16	0
A1060	Resubmission	1	1	0%	26-Apr-16	26-Apr-16	0
A1070	Design review	1	1	0%	27-Apr-16	27-Apr-16	0
A1080	Final approval	1	1	0%	28-Apr-16	28-Apr-16	0
PS.1.2 Structural design		9	9	0%	29-Apr-16	11-May-16	0
A1090	Soil Invetigation	1	1	0%	29-Apr-16	29-Apr-16	0
A1100	Structural Design	1	1	0%	02-May-16	02-May-16	0
A1110	Submission of dtailed des	1	1	0%	03-May-16	03-May-16	0
A1120	Design review	1	1	0%	04-May-16	04-May-16	0
A1130	Recommended changes	1	1	0%	05-May-16	05-May-16	0
A1140	Approval of recommended	1	1	0%	06-May-16	06-May-16	0
A1150	Resubmission	1	1	0%	09-May-16	09-May-16	0
A1160	Design review	1	1	0%	10-May-16	10-May-16	0
A1170	Final approval	1	1	0%	11-May-16	11-May-16	0
PS.2 HR Procurement		15	15	0%	12-May-16	01-Jun-16	0
PS.2.1 Procurement of Design Cor		5	5	0%	12-May-16	18-May-16	0
A1180	Advertisement	1	1	0%	12-May-16	12-May-16	0
A1190	Prqualification of consultant	1	1	0%	13-May-16	13-May-16	0
A1200	Shortlisting of consultant	1	1	0%	16-May-16	16-May-16	0
A1210	Tender submission	1	1	0%	17-May-16	17-May-16	0
A1220	Award of contract	1	1	0%	18-May-16	18-May-16	0
PS.2.2 Procurement of Contractor		5	5	0%	19-May-16	25-May-16	0
A1230	Advertisement	1	1	0%	19-May-16	19-May-16	0
A1240	Prqualification of contractor	1	1	0%	20-May-16	20-May-16	0
A1250	Shortlisting of contractor	1	1	0%	23-May-16	23-May-16	0
A1260	Tender submission	1	1	0%	24-May-16	24-May-16	0
A1270	Award of contract	1	1	0%	25-May-16	25-May-16	0
PS.2.3 Procurement of Project Tea		5	5	0%	26-May-16	01-Jun-16	0
A1280	Advertisement	1	1	0%	26-May-16	26-May-16	0
A1290	Shortising	1	1	0%	27-May-16	27-May-16	0
A1300	Interview	1	1	0%	30-May-16	30-May-16	0
A1310	Final selection	1	1	0%	31-May-16	31-May-16	0
A1320	Contract	1	1	0%	01-Jun-16	01-Jun-16	0
PS.3 Execution		504	504	0%	02-Jun-16	08-May-18	0
PS.3.1 Basement		184	184	0%	02-Jun-16	14-Feb-17	0
A1330	Layout & excavation of fou	8	8	0%	02-Jun-16	13-Jun-16	0
A1340	Compaction & leveling of f	8	8	0%	14-Jun-16	23-Jun-16	0
A1350	Cutting of steel rebars	8	8	0%	24-Jun-16	05-Jul-16	0

Penta Square		Classic Schedule Layout			10-Jun-17 04:51		
Activity ID	Activity Name	Original Duration	Remaining Duration	Schedule % Complete	Start	Finish	Total Float
■ A1360	Placing sand layer	8	8	0%	06-Jul-16	15-Jul-16	0
■ A1370	Anti- termite spray	8	8	0%	18-Jul-16	27-Jul-16	0
■ A1380	Placing & laying of lean cc	8	8	0%	28-Jul-16	08-Aug-16	0
■ A1390	P/L water proof membrane	8	8	0%	09-Aug-16	18-Aug-16	0
■ A1400	Fabrication of footing steel	8	8	0%	19-Aug-16	30-Aug-16	0
■ A1410	Shuttering of footing	8	8	0%	31-Aug-16	09-Sep-16	0
■ A1420	P/L of footing concrete	8	8	0%	12-Sep-16	21-Sep-16	0
■ A1430	Removal of shuttering	8	8	0%	22-Sep-16	03-Oct-16	0
■ A1440	Shuttering of retaining wall	8	8	0%	04-Oct-16	13-Oct-16	0
■ A1450	P/L of concrete	8	8	0%	14-Oct-16	25-Oct-16	0
■ A1460	Removal of shuttering	8	8	0%	26-Oct-16	04-Nov-16	0
■ A1470	Layout of columns & inspe	8	8	0%	07-Nov-16	16-Nov-16	0
■ A1480	Steel fabrication, shutterin	8	8	0%	17-Nov-16	28-Nov-16	0
■ A1490	Shuttering of basement slk	8	8	0%	29-Nov-16	08-Dec-16	0
■ A1500	Inspection of shuttering	8	8	0%	09-Dec-16	20-Dec-16	0
■ A1510	Fabrication of steel	8	8	0%	21-Dec-16	30-Dec-16	0
■ A1520	Placing of PVC pipes	8	8	0%	02-Jan-17	11-Jan-17	0
■ A1530	Pooring of concrete	8	8	0%	12-Jan-17	23-Jan-17	0
■ A1540	Removal of shuttering	8	8	0%	24-Jan-17	02-Feb-17	0
■ A1550	Brick work	8	8	0%	03-Feb-17	14-Feb-17	0
■ PS.3.2	Ground Floor	72	72	0%	15-Feb-17	25-May-17	0
■ A1560	Layout of ground floor plan	8	8	0%	15-Feb-17	24-Feb-17	0
■ A1570	Fabrication of column steel	8	8	0%	27-Feb-17	08-Mar-17	0
■ A1580	Removal of shuttering	8	8	0%	09-Mar-17	20-Mar-17	0
■ A1590	Shuttering of ground floor	8	8	0%	21-Mar-17	30-Mar-17	0
■ A1600	Fabrication of steel	8	8	0%	31-Mar-17	11-Apr-17	0
■ A1610	Placing of PVC pipes	8	8	0%	12-Apr-17	21-Apr-17	0
■ A1620	Pooring of concrete	8	8	0%	24-Apr-17	03-May-17	0
■ A1630	Removal of shuttering	8	8	0%	04-May-17	15-May-17	0
■ A1640	Brick work	8	8	0%	16-May-17	25-May-17	0
■ PS.3.3	1st Floor	72	72	0%	26-May-17	04-Sep-17	0
■ A1650	Layout of 1st floor plan	8	8	0%	26-May-17	06-Jun-17	0
■ A1660	Fabrication of column steel	8	8	0%	07-Jun-17	16-Jun-17	0
■ A1670	Shuttering of 1st floor slab	8	8	0%	19-Jun-17	28-Jun-17	0
■ A1680	Inspection of shuttering	8	8	0%	29-Jun-17	10-Jul-17	0
■ A1690	Fabrication of steel	8	8	0%	11-Jul-17	20-Jul-17	0
■ A1700	Placing of PVC pipes	8	8	0%	21-Jul-17	01-Aug-17	0
■ A1710	Pooring of concrete	8	8	0%	02-Aug-17	11-Aug-17	0
■ A1720	Removal of shuttering	8	8	0%	14-Aug-17	23-Aug-17	0
■ A1730	Brick work	8	8	0%	24-Aug-17	04-Sep-17	0
■ PS.3.4	2nd Floor	72	72	0%	05-Sep-17	13-Dec-17	0
■ A1740	Layout of 2nd floor plan	8	8	0%	05-Sep-17	14-Sep-17	0
■ A1750	Steel fabrication, shutterin	8	8	0%	15-Sep-17	26-Sep-17	0
■ A1760	Shuttering of floor slab & l	8	8	0%	27-Sep-17	06-Oct-17	0
■ A1770	Inspection of shuttering	8	8	0%	09-Oct-17	18-Oct-17	0
■ A1780	Fabrication of steel	8	8	0%	19-Oct-17	30-Oct-17	0
■ A1790	Placing of PVC pipes	8	8	0%	31-Oct-17	09-Nov-17	0

Penta Square		Classic Schedule Layout			10-Jun-17 04:51		
Activity ID	Activity Name	Original Duration	Remaining Duration	Schedule % Complete	Start	Finish	Total Float
A1800	Poorring of concrete	8	8	0%	10-Nov-17	21-Nov-17	0
A1810	Removal of shuttering	8	8	0%	22-Nov-17	01-Dec-17	0
A1820	Brick work	8	8	0%	04-Dec-17	13-Dec-17	0
PS.3.5	Finishing works	104	104	0%	14-Dec-17	08-May-18	0
PS.3.5.1	Interior Finishing	64	64	0%	14-Dec-17	13-Mar-18	0
PS.3.5.1.1	Plumbing, Electrical, I	32	32	0%	14-Dec-17	26-Jan-18	0
A1E	Mumty floor	8	8	0%	14-Dec-17	25-Dec-17	0
A1E	2nd floor	8	8	0%	26-Dec-17	04-Jan-18	0
A1E	1st floor	8	8	0%	05-Jan-18	16-Jan-18	0
A1E	Basement	8	8	0%	17-Jan-18	26-Jan-18	0
PS.3.5.1.2	Plaster work	32	32	0%	29-Jan-18	13-Mar-18	0
A1E	Mumty floor	8	8	0%	29-Jan-18	07-Feb-18	0
A1E	2nd floor	8	8	0%	08-Feb-18	19-Feb-18	0
A1E	1st floor	8	8	0%	20-Feb-18	01-Mar-18	0
A1E	Basement	8	8	0%	02-Mar-18	13-Mar-18	0
PS.3.5.2	Ceiling, Floor, Wood work	40	40	0%	14-Mar-18	08-May-18	0
A1910	Basement finishing works	8	8	0%	14-Mar-18	23-Mar-18	0
A1920	1st floor finishing works	8	8	0%	26-Mar-18	04-Apr-18	0
A1930	2nd floor finishing works	8	8	0%	05-Apr-18	16-Apr-18	0
A1940	Mumty floor finishing works	8	8	0%	17-Apr-18	26-Apr-18	0
A1950	Installation of passenger lift	8	8	0%	27-Apr-18	08-May-18	0
PS.3.6	Exterior Finishing	0	0	0%			0
PS.4	Closing	0	0	0%	08-May-18	08-May-18	0
A1960	Closing	0	0	0%		08-May-18	0

3.1.4 Project WBS Report

Penta Square

10-Jun-17 18:29

WBS

WBS Code	WBS Name	Total Activities
PS	Penta Square	97
PS.1	Planning & Design	18
PS.1.1	Architectural design	9
PS.1.2	Structural design	9
PS.2	HR Procurement	15
PS.2.1	Procurement of Design Consultan	5
PS.2.2	Procurement of Contractor	5
PS.2.3	Procurement of Project Team	5
PS.3	Execution	63
PS.3.1	Basement	23
PS.3.2	Ground Floor	9
PS.3.3	1st Floor	9
PS.3.4	2nd Floor	9
PS.3.5	Finishing works	13
PS.3.5.1	Interior Finishing	8
PS.3.5.1.1	Plumbing, Electrical HVAC	4
PS.3.5.1.2	Plaster work	4
PS.3.5.2	Ceiling, Floor, Wood works, Paint etc.	5
PS.3.6	Exterior Finishing	0
PS.4	Closing	1
Total		97

CHAPTER-4: Conclusions & Discussions

Conclusion

Primavera P6 is incredible project management software. It allows us to easily plan, manage, monitor and track projects in selected company. Primavera P6 not only helps planning engineers, schedulers etc. but it's equally beneficial for managers, and any stakeholder involved in a project.

ANNEXURE I – LIST OF ABBREVIATIONS

<i>TMA</i>	<i>Town Municipal Administration</i>
<i>P6</i>	<i>Primavera Version 6</i>
<i>PM</i>	<i>Project Management</i>
<i>PMO</i>	<i>Project Management Office</i>
<i>EVM</i>	<i>Earned Value Management</i>
<i>EAC</i>	<i>Estimate at Completion</i>
<i>CV</i>	<i>Cost Variance</i>
<i>SV</i>	<i>Schedule Variance</i>
<i>SPI</i>	<i>Schedule Performance Index</i>
<i>CPI</i>	<i>Cost Performance Index</i>
<i>BAC</i>	<i>Budget at Completion</i>
<i>ETC</i>	<i>Estimate to Complete</i>

ANNEXURE II – CBT Log

Sr. No	Issue	Reason	Solution	Source used to hunt the solution	Remarks
1.	Resource wizard doesn't appear while adding the resources	The option for wizard is not checked.	Check the wizard from "User Preferences"	With the help of Instructor Mr. Muhammad Faisal Shahzad	Option facilitates the resource details of the project and it was solved efficiently
2.	No concept of Unit of labor	Unit detail is not set before	Set detail from the wizard	With the help of Instructor Mr. Muhammad Faisal Shahzad	Basic detail of the labor can be added - Solved
3.	To add new currency type	If the current currency is not available in list	Add the currency type from Admin currency	Through the help of Instructor Mr. Muhammad Faisal Shahzad	Addition of new currency details help in the project
4.	How to define any unit of measure	Details are needed for the measurement	Go to "Admin tab" click on "Admin Categories" then "Unit of measure" Now add the unit of measure	Through the help of Instructor Mr. Muhammad Faisal Shahzad	New unit information can be added
5.	How the structure of the project can be settled	To initiate the project	By using EPS & OBS from the tab "Enterprises"	By the option of help in Primavera P6	Initial steps of the project is completed by this option
6.	How to Replace/add/delete the columns heading	To appear the info of project accordingly	Go to columns icon and replace/add/delete columns	Through exploring the Primavera P6	Modify the project according to the need
7.	How to open & close a project	To start or end a project	Clicking on "File" tab and selecting the required option	By the option of help in Primavera P6	Switching between the projects can be done
8.	Set the report date	To mention the reporting period	Click on "Tools" then select option of "Schedule"	By exploring the Primavera P6	Report date is settled by this option
9.	Baseline was not visible in the bar chart	To activate the primary baseline option in Bars	Clicking on primavera help	By using the Primavera Help	Issue is settled from getting method from

10.	The unit of per brick was not present in primavera	To measure resources per brick rate	Go to Admin Admin Categories Unit of measure Add unit	Through the help of Instructor Mr. Muhammad Faisal Shahzad	Addition of new unit of measurement from prescribed procedure
11.	How to add another baseline into the project	To change the project baseline	Go to Project Tab then go to maintain baseline	By using primavera help	The new baseline was added in the project
12.	Incorrect calculation of overtime	To add the overtime calendar in project	Go to Admin Click preferences Under Time periods And Change default hour per time period	Through the help of Instructor Mr. Muhammad Faisal Shahzad	The imbalance in the project calendar was corrected and settled the calculation of overtime

ANNEXURE III – Bibliography

PMI. PM BOK 5th Edition.