

PROJECT REPORT

Construction of a House of 10 Marla's in DHA Lahore

COMPANY

Grey Structures DHA Lahore

NAME: Ghulam Murtaza

ENROLLMENT: 03-298151-032

NAME: Syed Tughral Rasooli

ENROLLMENT: 03-298151-020

SEMESTER: Fall-2015- MS (PM)-3



MS (PROJECT MANAGEMENT)

BAHRIA UNIVERSITY LAHORE CAMPUS

SUBMITTED TO: MR. Faisal shahzad

SUBMISSION DATE: 11-June-2016



Gray Structures
Consultant Town planner and Architect

GRAY STRUCTURES A Construction Company

First page of the report should be **CERTIFICATE** duly verified by the company of **Standard Format**

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. Tughral Rasooli Enrollment: 03-298151-020 Class: **MSPM-III** Semester: **Fall 2016** has contacted / visited / frequently utilized our premises / participated in our real-time projects for implementing project management skills using Primavera 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. 10 Marla house construction in DHA Lahore
2. The Candidate was participated in Planning, costing and implementation phase
3. The Candidate was also participated in closing phase of the project

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

Additionally, It is noteworthy to mention that Mr Syed Tughral Rasooli demonstrated good ethical practices, enthusiastic approach to work, task convergence capabilities, professionalism while his/her stay / connection with this organization.

Certified By Company Official:

(Signature, Stamp & Date)

Verified By Teacher:

(Signature & Date)

COL(R)

Ghaffar Arshad

ABSTRACT

In today era the role of Primavera is important in order to run the project in a mannerly way. The Primavera endeavor to institutionalize and propose economies of recurrence in the execution of projects. The Primavera is the source of authentication, supervision and metrics on the practice of project management and execution. A primavera is taken as a driver to achieve all the targets that are facing by project like time issues, bad coordination, bad costing coordination etc. and also implement the project management practices

Majority of the projects are not fail but according to the research 19% of the projects are fail and 46% of the project catches hard challenges, such as delay in the project, overwhelm of the budget and fail to achieve the requirement or end product. The type of failures and threats can be facet to disturb documentation in a project, wrong time estimation and cost estimation as well, fail to deliver the product, short term planning and lack of consistency. In today era these are challenges facing by the companies, and this can be answer only by deploying primavera software

From the above discussion we have recommended the Primavera software and try to deploy that model in a construction company that is Gray Structures. First of all we would like to discuss the Primavera, there are different explanation available for the Primavera

Furthermore, a project timeline, Milestones and with the help of different curves we have explain this document and also deployed on the real time project. We have studied **“Dynamics of primavera”** as an elective course in the degree program MS (Project Management) at Bahria University Lahore Campus by respected teacher Mr. Faisal Shahzad who has been kind enough to guide us throughout the course.

Acknowledgement

No doubt our great mentor help us and guide us in detail in this project. My sincere thanks to the respected teacher Mr. Faisal Shahzad for the guidance and encouragement in finishing this project report in time.

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

This project report has indeed helped 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.

TABLE OF CONTENTS

TABLE OF CONTENTS

1. Company's Introduction.....	1
1.1 Company's Vision	2
1.2 Company's services	3
1.3 Company's Mission	5
1.4 CEO Message.....	6
1.5 Company Major Projects.....	10
2. Primavera	18
2.1 Primavera introduction Introduction.....	20
2.3 Why Primavera needed.....	25
2.4 Advantages of Primavera.....	26
3. Project Scope Statement	
3.1 Project Scope Description.....	52
3.2 Project Benefits.....	54
3.3 Project Scope in Detail.....	56
3.5 Business Driver.....	62

4.	Project Charter.....	65
	4.1 Project Purpose.....	67
	4.2 Success Criteria.....	68
	4.3 High Level Requirement.....	69
	4.4 High Level Project Description.....	70
	4.5 High Level Risk.....	74
	4.6 Summary Mile Stone Schedule.....	76
	4.7 Summary Budget.....	78
	4.8 Stake Holders.....	80
	4.9 Approval Authority.....	80
6.	Reports	
7.	Conclusion	
8.	Reference	
9.	Pledgerism Report	

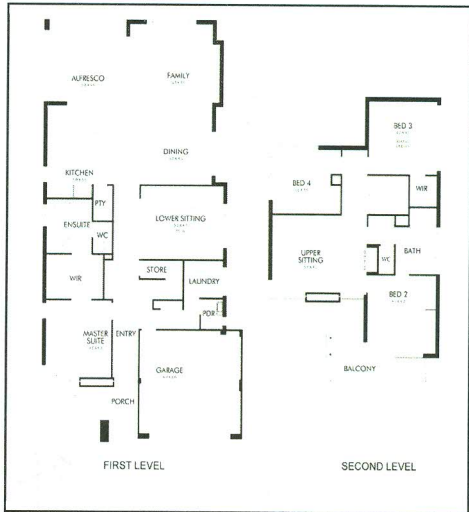
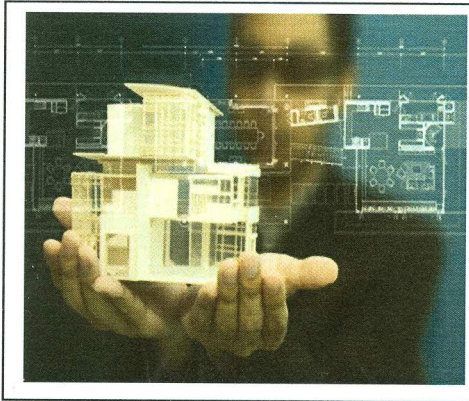
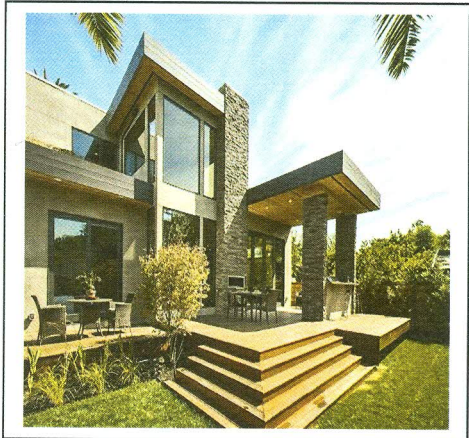
INTRODUCTION

Grey Structures is one of the top interpretation Construction firm in Pakistan, Lahore district. We are grand to herald that we have enormous amount of clients told to our address. Grey Structures typically particular fulfill and straightforward hires the important discipline of work.

Grey Structures single material educate is coalesce in our design and random access memory esteem. Powered by dedicated management, one of our carpel import concede the importance of our employees. Our clients are our top property. All members of our firm are disposed the occurrence to surpass. Safety is a regard, not orderly an antecedence at Grey structure. Through our companions supported safeness plant we are alluring safeness to the next level. Grey Structures precedence the worth store Construction business in mentoring of trade and inspection.

Our regionalized business operations have concede grey structure to fight an inconsiderable- circle, lineage air with consolidate constrain to our relations, and the talent to move rapidly to experience clients' necessarily.

Grey Structures fiscal authority, contrivance and personality throughout Pakistan endow us to be active discharge support, weak leading, and abundant, complicate scheme



GREY STRUCTURES VISION STATEMENT

Be the Pakistan's principal engineering, Construction, and Project management organization by realize uncommon proceed for our customers, edifice requite running for our kindred, and earning a equitable reply on the worth we commit.

Grey Structures compete to become our clique through investigation exalt technology, laboriousness turn and the varying necessarily of our client ship as our business evolves. We will continuously variegate our judgment regulate to perceive us from our rivalry and cosset constant customers as we raise dwelling of other varieties that better the nature of world in Pakistan.

The Company persevere to move ardent in get the foremost Engineering and Construction robust in Lahore and at last the country, by consistently commit plan that suffer international standards.

To be the selected contractors. A firm that our customers want to continue with us and our employees are arrogant to duty for

Our Vision is to produce and fight an band of highly skillful interpretation professionals that help our Clients' indispensably with honor and entireness. To provide a surrounding that further movable adulthood and identical-haughtiness.

Through our business expertise in construction, engineering and Architecture, we train and support our clients so that you can require a contention in our company. We work tirelessly to confirm that our contrive are mutually lucky for all and trial to falsify relationships that agree the trial of tempo.

CHIEF EXECUTIVE OFFICERS MESSAGE

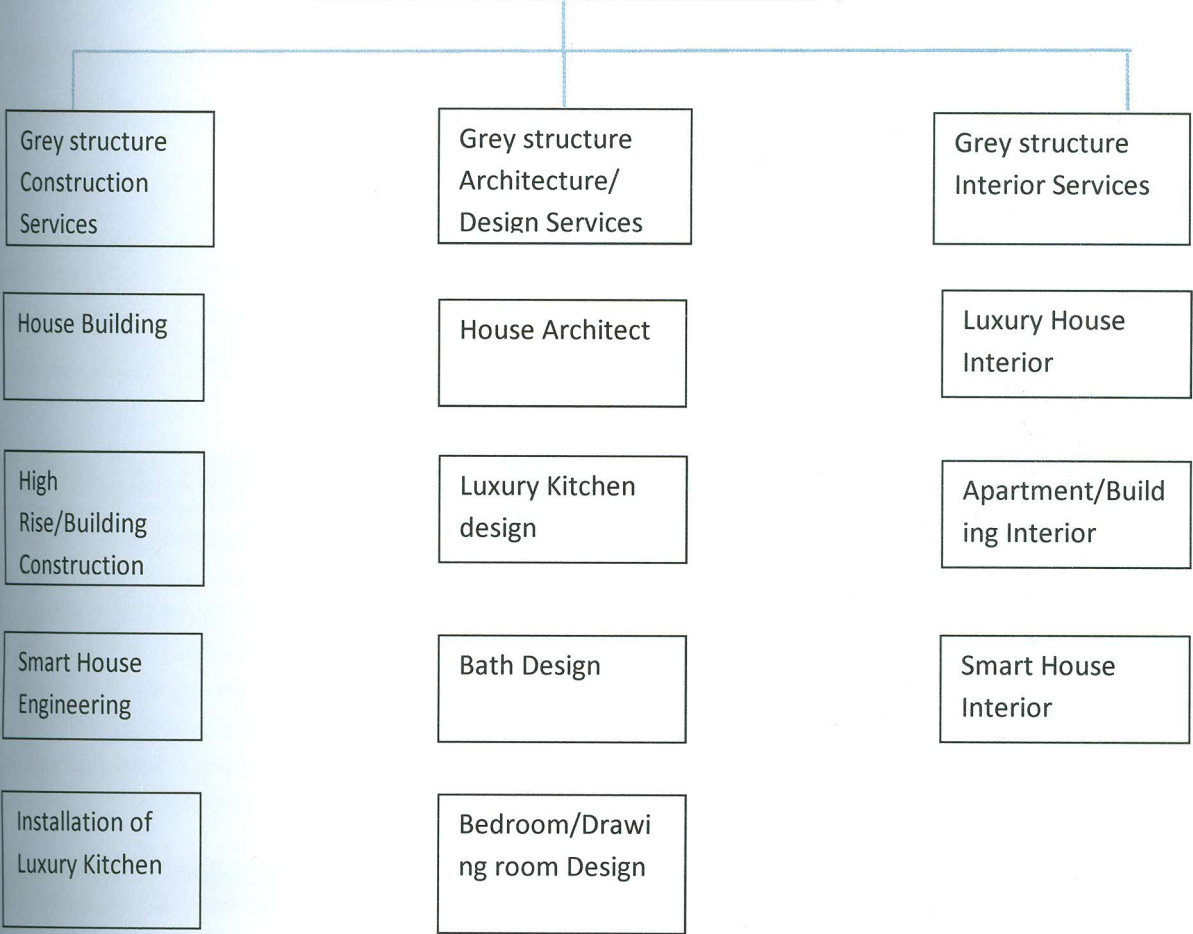
Growing organization must not only consider into the forward but also suppose that is constituting to occasionally appear into our past, from where we enter. We should not think superiority in the future unless we check the succession of our past, expect to our clients and take the requisite and attribute actions to intercept their necessarily.

Over the elapsed donkey's the sequent 3 text have been the keystone to our succession,

- We "out expect" our competitors by legitimately knowing our customers necessarily.
- Our QUALITY facture, TIMELY fulfillment and SAFETY reflect are always principal.
- The nurture and credit of our devoted to and constant personnel are the elements that coalesce to companion

We believe in three main things **time, under budget and to a high standard of quality.**

GREY STRUCTURE SERVICES



GREY STRUCTURES CONSTRUCTION SERVICES

Construction resort benefit our clients nationwide to commit chief composition scheme accomplished, on list, and within move. Our appropriation to our structure personnel, safeness scheme, and improving occupation policies that empower us to pay, prompt, snare, and hold highly skillful nation.

Our worthy studio station permit us to interest the prime adapted subcontractors for composition that we do not personification-accomplish.

- Grey Structure House Building
- Grey structure High rise/Building
- Smart House Engineering
- Installation of Luxury kitchen
- Installation of Luxury Bath

GREY STRUCTURES CONSTRUCTION MANAGEMENT

Grey structure distinguish Construction Management as an increase of the dependent's stick, and savvy that the combined responsibilities hide an extended ramble of executive, catching, footprint, and track undertaking that constrain.

Moreover, grey structures also have the wide erudition of and undergo in erection itself that is requisite to exceed in Construction Management, with a proved way recite of rank and safeness.

Construction management services includes:

Contracting for Construction

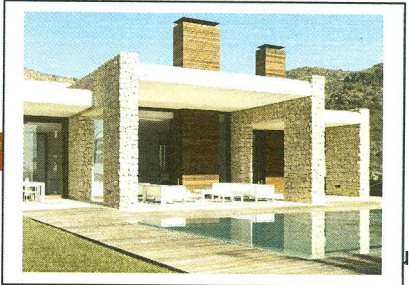
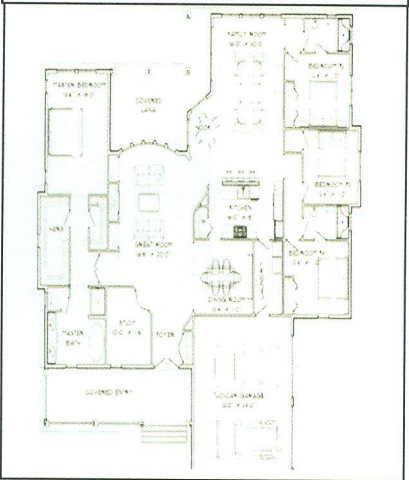
- Contracting for Construction
- Pre selection of bidders
- Preparation of enjoin bale
- Bid precept event
- Pre-direct conferences
- Bid valuation

Materials Management

- Materials Management
- Field inducement
- Construction direction

Management of the Construction Project

- Safety and temner direction



Grey Structures continue a real reput for utter most architectural and interior design services to regulation and secluded Clients. The firms large resume wander from the design and sketch of Luxury abode, Smart harbor, Luxury scullery purpose, Luxury Bath designate and setting up.

Grey building builder and internal designers are wise at distinguishing principal necessarily and notice requirements and entrance that notice into correspondent project solutions.

Through workshops and customer interaction as well as pat into the wide cognition degraded found within the manifold instruct in the dense. Gray structures is committed to deliver the result in an excellent way.

House Architect/Design 2D/3D	Bath Design 2D/3D	Bedroom/Drawi ng room Design 2D/3D	Luxury Kitchen design 2D/3D	Office Design 2D/3D
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GREY STRUCTURES INTERIOR DESIGNING SERVICES

GREY STRUCTURES has influential expertise of artful creative interiors for residing house. Its inner sketch outshoot coalesce organic alteration and re-project, with the co-harmonize manner of existence, species, correct, materials and interweave, in custom to composed an everywhere consequence that is apart high-toned yet official. We disclose creative interiors that are tranquil to float with.

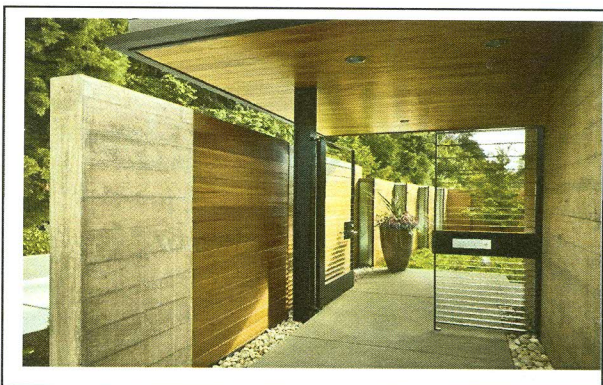
GREY STRUCTURES promise inland intend for residing properties of all suit and bigness. In increase to intriguing the kitchens, flowing space, bedrooms and bathrooms, our inland designate ideas often in close the appointment of unaccustomed walk such as extensions. As inside designers we are modified to win up architectural draught and wield the textural composition on your profit.

Grey structure
interior Services

Luxury House
Interior

Smart House
Interior

Apartment/Build
ing Interior



GREY STRUCTURES MISSION

To retain being an potent General Contractor operation in an ethical and even appearance to obtain the delivery of being the General Contractor of choice.”

We ascend to be the acknowledge leader in the Construction, attached to construction infrastructure, and architectural work across Pakistan. We contest always to supply the meridian utility to our owners, customers, and community with a fastidious brood towards safeness, attribute, and office.

Grey structures shape ideas into devotion through a delivery of construction hope, utter however buyer avail and appoint appraise

COMPANY'S CORE VALUES

• SAFETY

Safeness is a righteous mortgage. Our goal is to acquire and suffer an aught adventure throng.

• TEAMWORK

we expect that the flower arise are obtain when everyone product together; our stave, our clients, our consultants, and our subcontractors and suppliers.

• FAIRNESS

we think in property not size. We satisfaction others as we invoke to be parley.

• PROFESSIONALISM&EXCELLENCE

we behavior ourselves in a look of which we are magnificent; as individuals, and as representatives of our circle and labor.

• PERSONALGROWTH

we verify our employees in their goal to enlarge their reason and have. We trust that employees are characterize to meaningful, suffice employment as they aid allege the goals of the party.

• HONESTY&INTEGRITY

we do what we trial. We are always frank, true and guidance ourselves with honesty.

GREY STRUCTURES OPERATING GUIDELINES

• CLIENT SATISFACTION

Client contentment is our Core value. Our goal is to move beyond customer content to customer allegiance by complementary our product in the province and in the function on document, and by profitable care to the low-level.

• SCHEDULE

we lordliness ourselves on our address to realize resistive table goals.

• QUALITY

our clients merit to have their stab consummate fitly the first opportunity. Quality is a condition, not only of the extreme performance, but also in our relationships with our clients and vocation mate.

• COMMITMENT&DISCIPLINE

we learn that very-training and relegation are the foundations of our united and hypostatic succession.

Askari 11 Masjid, Lahore



Description

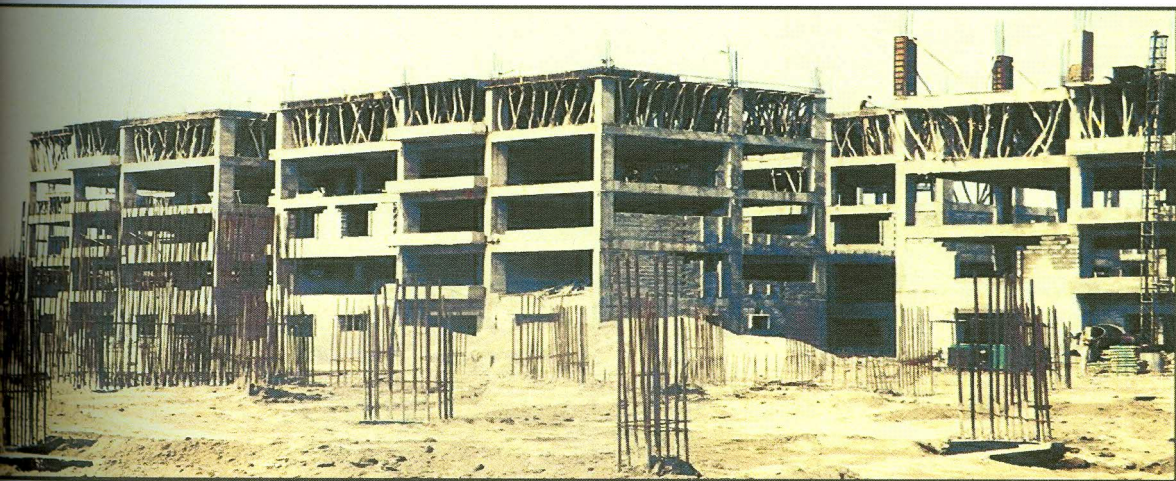
Location	Askari 11,Lahore Cantt
Covered Area	30,000 sq ft
Cost	10000000/- Rs
Mile Stone	Interior,Exterior,Calligraphy

PROJECT with Army Housing Directorate

THREE STORY FRAME STRUCTURE BLOCK

JSHIS

JCO soldiers Housing Insurance Scheme



Phase 1	20 Blocks	Complete
Phase 2	15 Blocks	Complete
Phase 3	15 Blocks	Complete
Total Area of 1 block	19701/sq ft	
Story	3 Story Building	4 bed rooms House
Total Blocks are	50	Phase 1,Phase 2 and Phase 3
Total Cost for Whole projects is	350,00000x50 Apartment	1.75 Billion RS OR 1750 Million
Total Tenure	2 year	Phase 1,Phase 2 and Phase 3

10 Marla house in Defence housing Authority Lahore, Phase 5



Description

Location	DHA Lahore, Phase 5
Covered Area	4400 sq. ft.
Size	10 Marla
Cost	30 Million
Mile Stone	Gray Structure, Interior and Exterior
Completion time	7 Months



Description

Location	DHA Lahore, Phase 6
Project	Interior Designing
Size	5 Marla House
Mile stone	Designing and Finishing

Kitchen Design



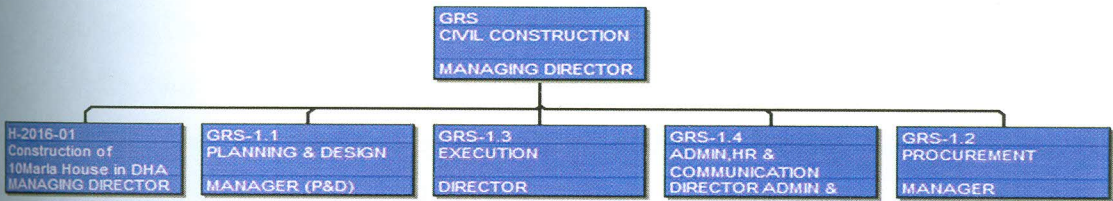
Specification

Location	Paragon City
Kitchen Size	18x18
Mile Stone	Interior, Exterior Design
Cost	1 Million.

ORGANIZATIONAL STRUCTURE

Grey structure has poise matrix association. As organizational structures described by PMI PMBOK, project manager understand these type of structure. However, there are four different groups i.e. Engineering, Finance, architecture and contract.PM does not have the whole authority over the project. For example, an officer provide report to the Pm and functional manager at the same time this may create bad impression on the project which may decrease the output of the project.

OBS



Project Scope Statement

Project Scope Description:

- Construction of 10 Marla house in Defense Housing Authority Lahore
- Total covered Area of a project is 3000 sft
- Completion time of a project is 8 Months Including Documentation.
- The Basic Aim of the project is to complete the Client demand in a successful manner, and maintain High quality.
- The Total Estimated cost of Construction is PKR 20,92000/- Excluding Cost of Land which Exclude Company Profit
- The Company rate for 1 Sq Ft is about 3600/sq. ft. for High Standard quality house
- Project working hours will be from 8:00-5:00, including Saturday and Sunday
- Another Aim of the project is to promote the Brand Name of a company that is Gray Structures
- Company have their own Architect and have lot of experience
- House designs is updated and compete the market.
- The contract with sub-contractors must be clear before execution.
- The main resources we are using in this project are project engineer, architect and labor
- The project is bound to follow DHA bylaws.

Project Benefits

- Change the Concept of old design houses in to luxurious houses
- Innovation of New technology
- To win hearts and minds of people
- Gain maximum clientage
- To earn maximum profit
- To set a competition for other Construction companies
- Introduces our services in the market

Project Scope Statement

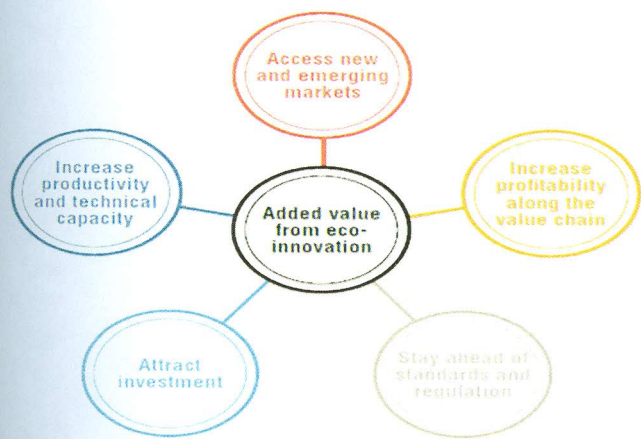
To foresee faultless, secure, unpliant and indulgent construction so that the conclusion proceed is as per the requirements of the user. Gray Structures desire to comprehend the project within the demonstrate budget and limit and with the conscience of all the devise members and to stipulate the ultimate work according to the requirement of the user and attempt to assert the attribute.

Project Name: Construction of 10 Marla house in Defense housing Authority	
Prepared by: Syed Tughral and Ghulam Murtaza	
Date: 11-june-2016	
Project Objectives:	To provide perfect, assured, unpliant and indulgent composition so that the conclusion according to the demand of the user Gray structures desire to comprehend the project within the exhibit budget and period and with the consciences of all the contrive member and also to arrange the final toil according to the desire of the user and try to affirm the reputation
Product Description:	Successful Completion of 10 Marla Luxury house in DHA to earn maximum profit and introduce new concept of house.
Project Deliverables:	❖ Architectural work ❖ Ground Floor ❖ 1st floor ❖ 2nd floor ❖ Finishing
Cost Objectives:	The total cost of the total project is 20,92000/- PKR
Seclude Objectives:	Complete the project on time and sale it.
Acceptance Criteria:	• House design should be modern • Must design full project from Architect • Monitor by Project engineer and Architect
Constraints:	• High quality martial should be used • Change in scope will not be accepted

Assumptions:	• Must be modern design • Quality Construction • Must use Excellent Martial used
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Business Drivers

- Attract investment
- Increase productivity
- Stay ahead of standard and Regulation
- Earn Profit
- Improve technical capacity
- Attract Investment



Project Charter:

Project Purpose:

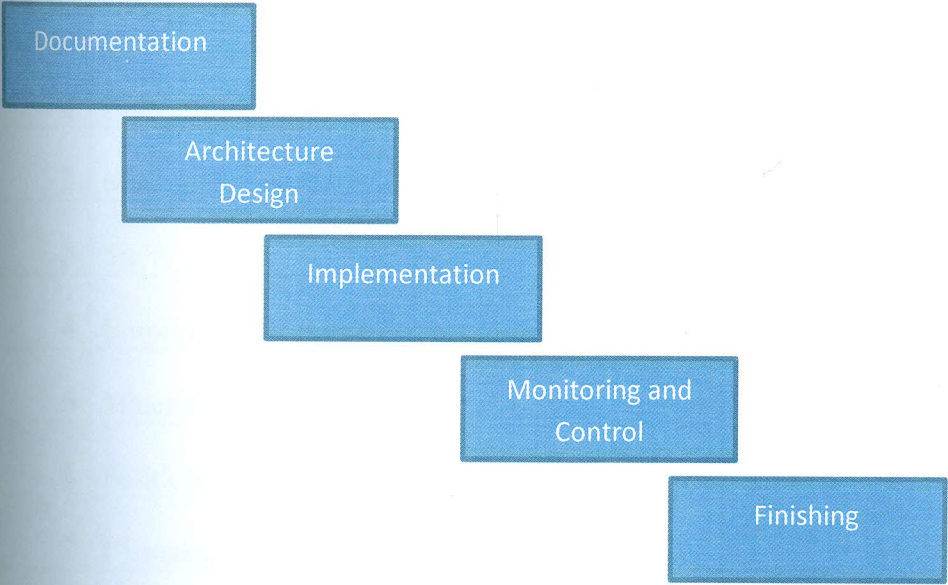
- The Basic purpose of this project is to introduce a new luxury house design in a market and gain best clientage so that we can generate maximum profit from the project To provide perfect, assured, unpliant and indulgent composition so that the conclusion according to the demand of the user Gray structures desire to comprehend the project within the exhibit budget and period and with the consciences of all the contrive member and also to arrange the final toil according to the desire of the user and try to affirm the reputation
- Gray Structures wish to finish the project according to the defined budget and time and with the consciences of all the project member and stake holders and to contribute the ultimate result according to the consciences of the members and strive to allege the temper

Success Criteria:

We are more focusing on the following thing

- ✓ Hit the market demand
- ✓ Complete all the project according to the requirement
- ✓ Stick with in a budget
- ✓ Deliver the key product
- ✓ Boost up the name of the organization
- ✓ catch the quality requirement

High-level requirement:



High Level project Description:

Construct a 10 Marla house in defense housing Authority Lahore. The total worth of a project is 20,92000/- rupees at labor rate. The covered area of a project is 3000 sft. The tenure of a project is 8 months.

Gray Structures wish to finish the project within the demonstrate budget and period and with the involvement of all the project brood and also to contribute the ultimate result as per the expectations of the offer and strive to allege the temper

The main objective of the project is to introduce a modern and luxury house design in the market and gain profit

Elements	Description
Strategy	To achieve the project objective on time within given cost
Structure	Initiating, planning, execution, Monitoring and control, and Closing
Staff	Project Engineer, Procurement officer, Architect.
Skill	All staff is skilled in their field
Style/culture	Believe on Team work

High Level Risk:

Sr. No	RISK	IMPACT
1	If the project does not complete on time	High
2	Machinery loss/damage	Low
3	Theft	Medium
4	Employee Attrition	Medium
5	Material Shortage	Low
6	Political Environment Of Pakistan	Medium
7	Changing Market conditions	Medium
8	Load shedding	High
9	Natural Disaster	Low
10	Material Damage	Low

Summary Milestone Schedule:

Sr. No	Milestone
1	Documentation
2	Site preparation
3	Earth work
4	Utility work
5	Framing and brick work
6	Plumbing and electrical work
7	Finishing of wall and floor
8	Paint and polish
9	Installation of plumbing and electrical fitting
10	Project completion and final stages

Summary Budget:

The total budget of the project is 20,92000/-Rupees.

The Gray structures follows the following table for cost purpose

Bill of Quantity

Sr. NO	DESCRIPTION	UNIT	QUANTITY	UNIT RATE (Rs)	TOTAL AMOUNT (Rs)
	STRUCTURE WORK				
1	Excavation of all kinds of materials including rocks and disposal of all kinds of materials outside the project limits	Sft			
2	Fill and back fill of the area that was Excavated with suitable material and soil.	Sft			
3	Termite control treatment as approved by The engineer.	Sft			
4	Steel reinforcement round bars.	M.ton			
5	Providing and laying plain cement concrete (PCC) in foundation.	Sft			
6	Providing and laying Reinforced cement Concrete (RCC) in foundations	Sft			
7	Providing and laying reinforced cement Concrete in column and column stems	Sft			
8	Bricks	Pieces			
9	Sand	Dumpers			
10	Stone Ballast	Dumpers			
11	Aluminum Windows	Sft			
12	Wood	Sft			
13	Providing and laying of RCC in column and column stems in foundations and ground floor.	Sft			
14	Providing and laying RCC in column and Column stems in first floor.	Sft			
15	Providing and laying RCC in plinth beams.	Sft			
16	Providing and laying RCC in slabs and stairs.	Sft			
17	Providing and laying RCC in overhead water tanks	Sft			

	ARCHITECTURAL WORK				
18	Brick work of foundation, complete in all respects	Sft			
19	Brick work of ground floor, complete in all respects	Sft			
20	Brick work of first floor, complete in all respects	Sft			
21	Cement sand plaster on interior walls, columns and beams	Sft			
22	Cement sand plaster on exterior walls, columns, beams at ground floor	Sft			
23	Cement sand plaster on exterior walls, columns, beams and over head water tanks at first floor	Sft			
24	Cement sand plaster on stairs.	Sft			
25	Providing and fixing wooden frames.	Sft			
26	Providing and fixing aluminum windows.	Sft			
27	Three coats of plastic emulsion on external as well as internal walls	Sft			
28	Three coats of synthetic enamel paint of approved quality and color as per instructions	Sft			
29	Three coats of weather shield paint.	Sft			
30	Providing and fixing stair railing on all steps of stairs	Sft			
31	Providing and fixing wooden doors and wooden wardrobes	Sft			
32	Providing and laying of crushed stone, sand and cement for concreting of floor.	Sft			
33	Providing and laying of marble and ceramic tiles for flooring	Sft			
34	Providing and fixing of borders and skirting with ceramic tiles and marbles.	Sft			
35	External finishes including face work as per the requirements mentioned.	Sft			
36	Providing and fixing of false ceiling	Sft			
	PLUMBING WORK				
37	Providing and fixing of water supply pipes and fittings of all types.	Meters			
38	Providing and fixing of waste pipes, vent pipes and their fittings of all types.	Meters			

	ELECTRICAL WORK				
39	Providing and fixing of for electric wires of all types Underground and inside the walls.	Rft			
40	Providing and fixing of light fixtures.	Pieces			
41	Providing and fixing of LT cables and	Rft			
42	Distribution boards.	Pieces			
43	Providing and fixing of Transformer and earthing cables	Rft			

Payment Plan for Construction

Activity	% of Total Amount			Total Amount
Advance	15%			
Completion of foundation	5%			
First floor completion	10%			
2 nd floor completion	10%			
Internal Plaster	5%			
External plaster	5%			
Flooring	10%			60% of Total Amount
Plumbing/Electric	5%			
Kitchen	10%			
Bath	5%			
Floor tiles/Marble	3%			
Door/window(Lighting, fans,Points)	10%			
Paint/dis-tamper/Fashiou (custom)	5%			
End of Gray structures and Final Stage	2%			40% Amount
Finalization				100% of Total Amount

Provisional Sum

- Boundary wall
- Main and wicket Gate
- Porch

Stake holder list:

Company Name:	Gray Structures				
Project Name	Construction of 10 Marla house in DHA Lahore				
Date:	11-6-2016				
Stakeholder	Role	Type	Type of Communication	Interests	Impact
Sub Contractors	Services and Construction	External	Documentation, Payments and meetings	To finish the project with in a given time and budget	dominant
D Project Team Including Labor	Engineers, builders and skilled labor	Internal	Performance of the project	Ensure that the work must complete as per the requirement.	Suspender
Architect	Inspection of the project regularly	Internal	Performance documentation	Ensure that the project is as per the given design	Dominant
Supplier	Construction Material	External	Invoices, Payment Schedule	To give best possible material approved by client.	Suppeorter

Project Approval requirement:

Reporting	Frequency	Who
<u>Meetings</u>		
Steering Committee	Fortnightly	Director
Project Team Meeting	Once in a Week	Project Engineer and Project Team
<u>Reports</u>		
Progress Reports	Every Month	
Closure Reports	At the End of Each Task	

Assigned Project manager, responsibility and authority level

Concerned person	Roles & responsibilities
Project Engineer	The project engineer will be responsible for managing and executing the overall project in technical aspect by devising strategy.
Procurement Officer	the procurement officer will supervise the overall project and follow the instruction of project engineer and communicate it to its subordinates
Labor:	Labor will be responsible for brick work, concrete, steel work, distemper etc and follow the instructions given by foremen
Architect:	Architect is responsible for construction drawing, and instruct to project engineer to follow the drawing in a proper manner. Also implement

Authorization person:

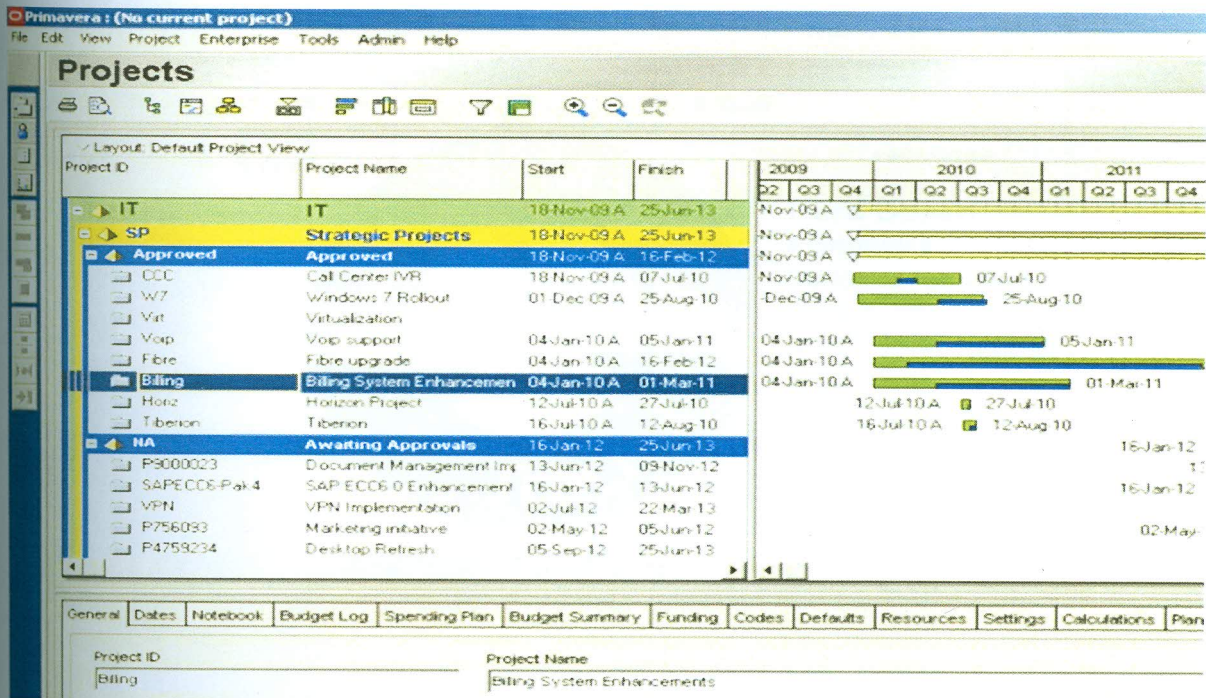
The Authorization person who is responsible for approving project charter is Managing Director of a company.

Authorizations	Name	Function	Date	Signature
Approved	Managing Director	Managing Director	11-6-2016	-----

Introduction to primavera P6:

Primavera Systems Inc. stipulate project guidance software for the Architecture, Engineering and Construction activity. Focused on project portfolio guidance, or PPM, Primavera solutions let user’s moderation increase, assert control, correct team collaboration and prioritize plan investments and expedient.

It is changeable software with quantity of characteristic and appearance. There are hundreds of choice and extent to be bench according to the quality of the project. Large plan are ordinarily conduct out on Primavera to subjugate the entanglement of the plan. It manage the expedient very carefully in an Optimized way.



Advantages of Primavera Software:

Primavera P6 is marvelous design management software. It concede you to readily plan, direct, supervise and
ce your association's plan, whether they are IT, Civil, Mechanical or any other example of projects.

Primavera P6 is meant for you by planners, contrivance engineers, schedulers and it is justly advantageous for
managers, and any stakeholder complex in a project

Primavera P6 has beneficence every business from aerospace to manufacturing, electronics to IT, Telecom to
civil, and hearken goes on. Primavera P6 has been in application for decades. It's avail to the organizations
many, in close the following:

It subjugate the hazard of plan slippage.

It diminish the risk of plan expense overflow.

It serve you gently plan and direct your project activities.

It relieve you optimise your project delineation, price and resource use.

It fetters you obvious visibility of what is going on in the plan.

You can predetermination price, catalogue.

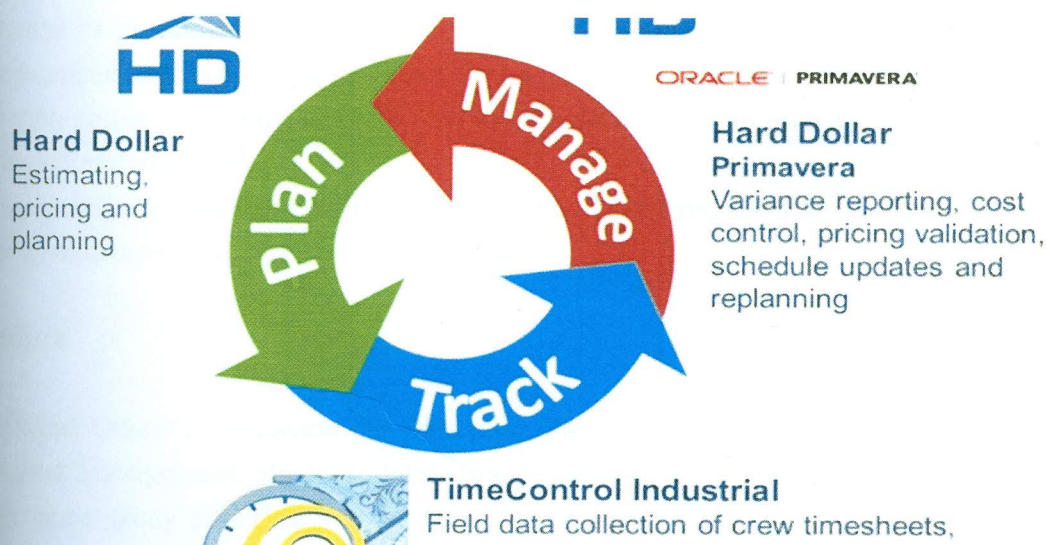
It gives you plan timeline and price quarrel instruction.

You can keep trace of project Time achievement and inspection past limit performances.

It empower organizations to regularize mode of design their plan, reproduce detail, for correct
collaboration and intelligence.

It assist you breakdown plan activities for emend understandability.

You can sketch and trace accumulation and actual price of expedient and other project charge.



Aegion Improves Operations; Gains Consistency; and Increases On-Time, On-Budget Project Delivery

Case Study from Oracle

Aegion Corp. is a global leader in infrastructure protection. It provides proprietary technologies and services that protect against the corrosion of industrial pipelines and rehabilitate and strengthen water, waste water, energy and mining piping systems and buildings, bridges, tunnels, and waterfront structures. It is a newly formed parent company for Insituform Technologies, Bayou, Corpro, CRTS, Fibrwrap, Fyfe, and United Pipeline Systems.

Challenges

- Strengthen and standardize project management processes across the organization, starting with the company's Insituform Technologies group, which provides cured-in-place pipelines primarily to public sector organizations that have specific requirements
- Increase visibility into project schedules, budgeting, costs, and progress to identify emerging issues quickly and take action to minimize risk
- Improve operational efficiency and data integrity, and allow project management teams to focus on strategic priorities
- Standardize on a project management solution and integrate it with the company's legacy enterprise resource planning (ERP) and customer relationship management (CRM) solutions to optimize its investment and reduce the need to maintain and support numerous duplicate IT environments across the organization
- Gain the ability to support larger infrastructure projects and an increase in global operations, while maintaining margins
- Ensure consistent and seamless project tracking and management, from the sales cycle, through to project completion

Solutions

- Deployed Oracle's Primavera P6 Enterprise Project Portfolio Management and Primavera Contract Management, Business Intelligence Publisher Edition, and integrated the solutions with the company's JD Edwards EnterpriseOne 9.0 and Oracle CRM On Demand applications to ensure end-to-end visibility and enhanced control for the company's pipeline and infrastructure development rehabilitation projects—from new-business wins, through to project completions

- Standardized and created a single source for all project scheduling information that improved construction crew utilization, reduced penalties related to delays, avoided rush charges, and improved materials planning and utilization
- Gained insight into emerging issues and enabled more rapid corrective action, supporting on-budget and on-time completion of projects, including public sector construction initiatives that require granular reporting
- Improved ability to forecast labor and materials, avoiding delays, boosting customer satisfaction, and maintaining margins
- Expanded project manager insight and control with more accurate and comprehensive data, including the ability to see all aspects of a project in real time—from onset of scheduling and resource planning and including financial performance
- Standardized project scheduling and management processes to help support larger and more geographically dispersed projects
- Created a platform that the company can roll out across its seven operating companies, starting with the Insituform group
- Reduced the need for data re-entry across multiple systems to improve productivity and data accuracy and ensured that project management, ERP, and CRM systems share consistent and up-to-date information

Activity List

Activity ID	Activity Name	Original Duration	Start	Finish
Construction of 10Marla House in DHA Lahore		197	25-Apr-16	10-Dec-16
Project Planning		19	25-Apr-16	16-May-16
Approvals		12	25-Apr-16	08-May-16
A1000	Client Go-Ahead for project startup	2	25-Apr-16	26-Apr-16
A1010	Approval by DHA	10	27-Apr-16	08-May-16
Design work		7	09-May-16	16-May-16
A1020	Archetectural Degin	2	09-May-16	10-May-16
A1030	Structural Design	2	11-May-16	12-May-16
A1040	Cost Estimation	2	14-May-16	15-May-16
A1050	Construction Planning	3	14-May-16	16-May-16
Project Execution		172	17-May-16	03-Dec-16
Sub-structure construction		17	17-May-16	05-Jun-16
A1060	Site Clearance	2	17-May-16	18-May-16
A1070	Soil Testing	1	19-May-16	19-May-16
A1080	Excavation	3	21-May-16	23-May-16
A1090	Lean Concreting	2	24-May-16	25-May-16
A1100	Column Foundation	2	26-May-16	28-May-16
A1110	Brick work of foundation	4	29-May-16	01-Jun-16
A1120	Plinth Beam	3	02-Jun-16	05-Jun-16
Super-structure construction		69	06-Jun-16	24-Aug-16
A1130	Columns & Beams for Ground Floor	10	06-Jun-16	16-Jun-16
A1140	Brick Work for Ground Floor	8	18-Jun-16	26-Jun-16
A1150	Shuttering for Ground Floor Slab	1	27-Jun-16	27-Jun-16
A1160	Binding of steel for Ground Floor Slab	1	28-Jun-16	28-Jun-16
A1170	Poring of concrete of First Floor Slab	1	29-Jun-16	29-Jun-16
A1180	Curing of slab Ground Floor	7	30-Jun-16	07-Jul-16
A1190	Removal of Slab shuttering G-Floor	1	09-Jul-16	09-Jul-16
A1200	Construction of Columns & Beams 1st Floor	12	10-Jul-16	23-Jul-16
A1210	Brick Work 1st Floor	10	24-Jul-16	03-Aug-16
A1220	Shuttering of slab 1st Floor	2	04-Aug-16	06-Aug-16
A1230	Binding of Steel of 1st Floor Slab	1	07-Aug-16	07-Aug-16
A1240	Poring of concrete 1st floor Slab	1	08-Aug-16	08-Aug-16
A1250	Curing of slab 1st Floor	7	09-Aug-16	16-Aug-16
A1260	Removal of 1st Floor slab Shuttering	1	17-Aug-16	17-Aug-16
A1270	Perapet Wall Construction	3	18-Aug-16	21-Aug-16
A1280	construction of mumty	3	22-Aug-16	24-Aug-16
Flooring		36	18-Aug-16	28-Sep-16
A1290	Sanitory & Water fittings	6	18-Aug-16	24-Aug-16
A1300	Katcha Floor for Ground Floor	5	25-Aug-16	30-Aug-16
A1310	Fixing of tiles of Ground Floor	7	31-Aug-16	07-Sep-16
A1320	Katcha Floor of 1st Floor	6	08-Sep-16	14-Sep-16
A1330	Fixing of tiles including baths of 1st floor	8	15-Sep-16	24-Sep-16
A1340	Top floor and Mumty top flooring	4	25-Sep-16	28-Sep-16
Finshing		126	10-Jul-16	03-Dec-16
A1350	Interal Plastering of the house	25	10-Jul-16	07-Aug-16
A1360	External Plastering of House	30	29-Sep-16	02-Nov-16

Activity ID	Activity Name	Original Duration	Start	Finish
A1370	Fixing of Doors & Windows of the House	10	29-Sep-16	10-Oct-16
A1380	Wood Work of TV Lounges & Rooms	10	11-Oct-16	22-Oct-16
A1390	Painting of internal surfaces of House	15	23-Oct-16	08-Nov-16
A1400	Painting of External Surface of the house	17	09-Nov-16	28-Nov-16
A1410	Installation of UPS Fans etc	4	29-Nov-16	03-Dec-16
Project Closure		6	04-Dec-16	10-Dec-16
Internal Closure		3	04-Dec-16	06-Dec-16
A1420	Final Inspection by Project Engineer	2	04-Dec-16	05-Dec-16
A1430	Final Inspection by Director Engineering	1	06-Dec-16	06-Dec-16
Validation by Client		3	07-Dec-16	10-Dec-16
A1440	Validation visit by the Client	1	07-Dec-16	07-Dec-16
A1450	Handing over to the Client	2	08-Dec-16	10-Dec-16

AD-01 Activity Status Report

Activity ID	Activity Name	Original Duration	Remaining Duration	Activity % Complete	Primary Resource	Early Start	Early Finish
Construction of 10 Maria House in DHA Lahore							
Project Planning							
A1000	Client Go-Ahead for project startup	2	0	100%	R.Project Management Team	25-Apr-16 A	26-Apr-16 A
A1010	Approval by DHA	10	0	100%	R.Project Management Team	27-Apr-16 A	08-May-16 A
A1020	Architectural Design	2	0	100%	R-20.Design Team	09-May-16 A	10-May-16 A
A1030	Structural Design	2	0	100%	R-20.Design Team	11-May-16 A	12-May-16 A
A1040	Cost Estimation	2	0	100%	R.Project Management Team	14-May-16 A	15-May-16 A
A1050	Construction Planning	3	0	100%	R-20.Design Team	14-May-16 A	16-May-16 A
Project Execution							
A1060	Site Clearance	2	0	100%	R.Project Management Team	17-May-16 A	18-May-16 A
A1070	Soil Testing	1	0	100%	R.Project Management Team	19-May-16 A	19-May-16 A
A1080	Excavation	3	0	100%	R-10.7-Labourer	21-May-16 A	23-May-16 A
A1090	Lean Concreting	2	0	100%	R-8.Concreting Team	24-May-16 A	25-May-16 A
A1100	Column Foundation	2	0	100%	R.Project Management Team	26-May-16 A	28-May-16 A
A1110	Brick work of foundation	4	0	100%	R.Project Management Team	29-May-16 A	03-Jun-16 A
A1120	Plinth Beam	3	0	100%	R.Project Management Team	02-Jun-16 A	07-Jun-16 A
A1130	Columns & Beams for Ground Floor	10	10	0%	R-8.Concreting Team	07-Jun-16	18-Jun-16
A1140	Brick Work for Ground Floor	8	8	0%	R.Project Management Team	19-Jun-16	27-Jun-16
A1150	Shuttering for Ground Floor Slab	1	1	0%	R-6.2-Labourer	28-Jun-16	28-Jun-16
A1160	Binding of steel for Ground Floor Slab	1	1	0%	R-17.Steel Fixing Team	29-Jun-16	29-Jun-16
A1170	Poring of concrete of First Floor Slab	1	1	0%	R.Project Management Team	30-Jun-16	30-Jun-16
A1180	Curing of slab Ground Floor	7	7	0%	R-6.2-Labourer	02-Jul-16	09-Jul-16
A1190	Removal of Slab shuttering G-Floor	1	1	0%	R-6.2-Labourer	10-Jul-16	10-Jul-16
A1200	Construction of Columns & Beams 1st Floor	12	12	0%	R.Project Management Team	11-Jul-16	24-Jul-16
A1210	Internal Plastering of the house	25	25	0%	R-4.Brick Work Labour	11-Jul-16	08-Aug-16
A1210	Brick Work 1st Floor	10	10	0%	R.Project Management Team	25-Jul-16	04-Aug-16
A1220	Shuttering of slab 1st Floor	2	0	100%	R-6.2-Labourer	04-Aug-16 A	06-Aug-16 A

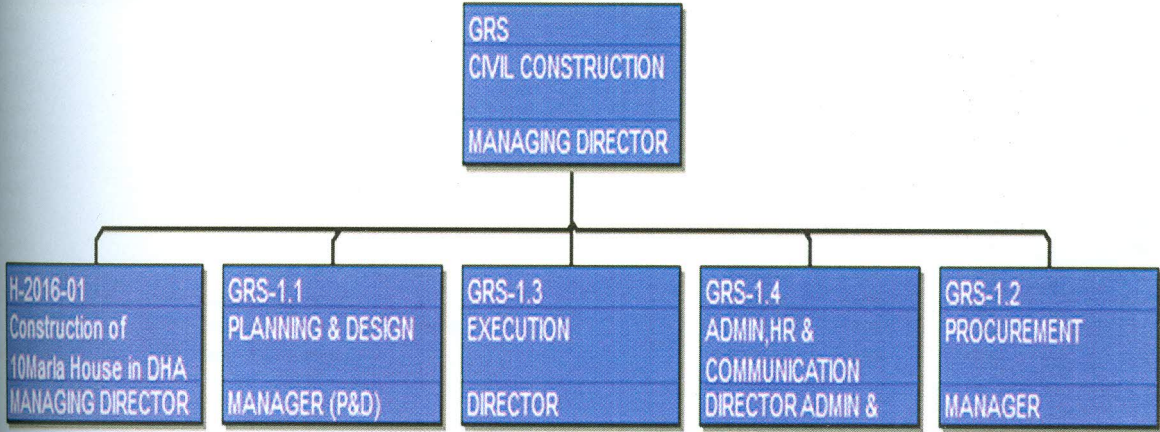
AD-01 Activity Status Report

Activity ID	Activity Name	Original Duration	Remaining Duration	Activity % Complete	Primary Resource	Early Start	Early Finish
A1240	Poring of concrete 1st floor Slab	1	1	0%	R-8 Concreting Team	06-Aug-16	06-Aug-16
A1230	Binding of Steel of 1st Floor Slab	1	1	0%	R-Project Management Team	07-Aug-16	07-Aug-16
A1250	Curing of slab 1st Floor	7	7	0%	R-6 2-Labourer	07-Aug-16	14-Aug-16
A1260	Removal of 1st Floor slab Shuttering	1	1	0%	R-6 2-Labourer	15-Aug-16	15-Aug-16
A1270	Perapet Wall Construction	3	3	0%	R-Project Management Team	16-Aug-16	18-Aug-16
A1290	Sanitory & Water fittings	6	6	0%	R-4 Brick Work Labour	16-Aug-16	22-Aug-16
A1280	construction of mumty	3	3	0%	R-4 Brick Work Labour	20-Aug-16	22-Aug-16
A1300	Katcha Floor for Ground Floor	5	5	0%	R-Project Management Team	23-Aug-16	28-Aug-16
A1310	Fixing of tiles of Ground Floor	7	7	0%	R-4 Brick Work Labour	29-Aug-16	05-Sep-16
A1320	Katcha Floor of 1st Floor	6	6	0%	R-Project Management Team	06-Sep-16	12-Sep-16
A1330	Fixing of tiles including baths of 1st floor	8	8	0%	R-4 Brick Work Labour	13-Sep-16	21-Sep-16
A1340	Top floor and Mumty top flooring	4	4	0%	R-Project Management Team	22-Sep-16	26-Sep-16
A1370	Fixing of Doors & Windows of the House	10	10	0%	R-Project Management Team	27-Sep-16	08-Oct-16
A1360	External Plastering of House	30	30	0%	R-Project Management Team	27-Sep-16	31-Oct-16
A1380	Wood Work of TV Lounges & Rooms	10	10	0%	R-17.Steel Fixing Team	09-Oct-16	19-Oct-16
A1390	Painting of internal surfaces of House	15	15	0%	R-Project Management Team	20-Oct-16	06-Nov-16
A1400	Painting of External Surface of the house	17	17	0%	R-7 Painting Team	07-Nov-16	26-Nov-16
A1410	Installation of UPS Fans ets	4	4	0%	R-Project Management Team	27-Nov-16	30-Nov-16
Project Closure							
A1420	Final Inspection by Project Engineer	2	2	0%	R-Project Management Team	01-Dec-16	03-Dec-16
A1430	Final Inspection by Director Engineering	1	1	0%	R-Project Management Team	04-Dec-16	04-Dec-16
A1440	Validation visit by the Client	1	1	0%	R-Project Management Team	05-Dec-16	05-Dec-16
A1450	Handing over to the Client	2	2	0%	R-Project Management Team	06-Dec-16	07-Dec-16
		195	158			25-Apr-16 A	07-Dec-16

ID	Activity Name	Original Duration	BL Project Total Cost	BL Project Duration	Start	Finish	2016			
							April	May		
							25	02	09	16
Construction of 10Marla House in DHA Lahore										
Project Planning										
Approvals										
A1000	Client Go-Ahead for project startup	2	PKR6,600	2	25-Apr-16 A	26-Apr-16				
A1010	Approval by DHA	10	PKR66,000	10	27-Apr-16	08-May-16				
Design work										
A1030	Structural Design	2	PKR28,400	2	11-May-16	12-May-16				
A1040	Cost Estimation	2	PKR28,400	2	14-May-16	15-May-16				
A1050	Construction Planning	3	PKR42,600	3	14-May-16	16-May-16				
A1020	Archetectural Degin	2	PKR15,200	2	09-May-16	10-May-16				
Project Execution										
Sub-structure construction										
A1070	Soil Testing	1	PKR6,600	1	19-May-16	19-May-16				
A1060	Site Clearance	2	PKR15,440	2	17-May-16	18-May-16				
A1120	Plinth Beam	3	PKR25,560	3	02-Jun-16	05-Jun-16				
A1090	Lean Concreting	2	PKR13,200	2	24-May-16	25-May-16				
A1080	Excavation	3	PKR26,520	3	21-May-16	23-May-16				
A1100	Column Foundation	2	PKR13,200	2	26-May-16	28-May-16				
A1110	Brick work of foundation	4	PKR34,080	4	29-May-16	01-Jun-16				
Super-structure construction										
A1220	Shuttering of slab 1st Floor	2	PKR2,240	2	04-Aug-16	06-Aug-16				
A1150	Shuttering for Ground Floor Slab	1	PKR1,120	1	27-Jun-16	27-Jun-16				
A1190	Removal of Slab shuttering G-Floor	1	PKR1,120	1	09-Jul-16	09-Jul-16				
A1260	Removal of 1st Floor slab Shuttering	1	PKR1,120	1	17-Aug-16	17-Aug-16				
A1170	Poring of concrete of First Floor Slab	1	PKR6,600	1	29-Jun-16	29-Jun-16				
A1240	Poring of concrete 1st floor Slab	1	PKR6,600	1	08-Aug-16	08-Aug-16				
A1270	Perapet Wall Construction	3	PKR25,560	3	18-Aug-16	21-Aug-16				
A1180	Curing of slab Ground Floor	7	PKR7,840	7	30-Jun-16	07-Jul-16				
A1250	Curing of slab 1st Floor	7	PKR7,840	7	09-Aug-16	16-Aug-16				
A1280	construction of mummy	3	PKR25,560	3	22-Aug-16	24-Aug-16				
A1200	Construction of Columns & Beams 1st Floor	12	PKR79,200	12	10-Jul-16	23-Jul-16				
A1130	Columns & Beams for Ground Floor	10	PKR66,000	10	06-Jun-16	16-Jun-16				
A1140	Brick Work for Ground Floor	8	PKR68,160	8	18-Jun-16	26-Jun-16				

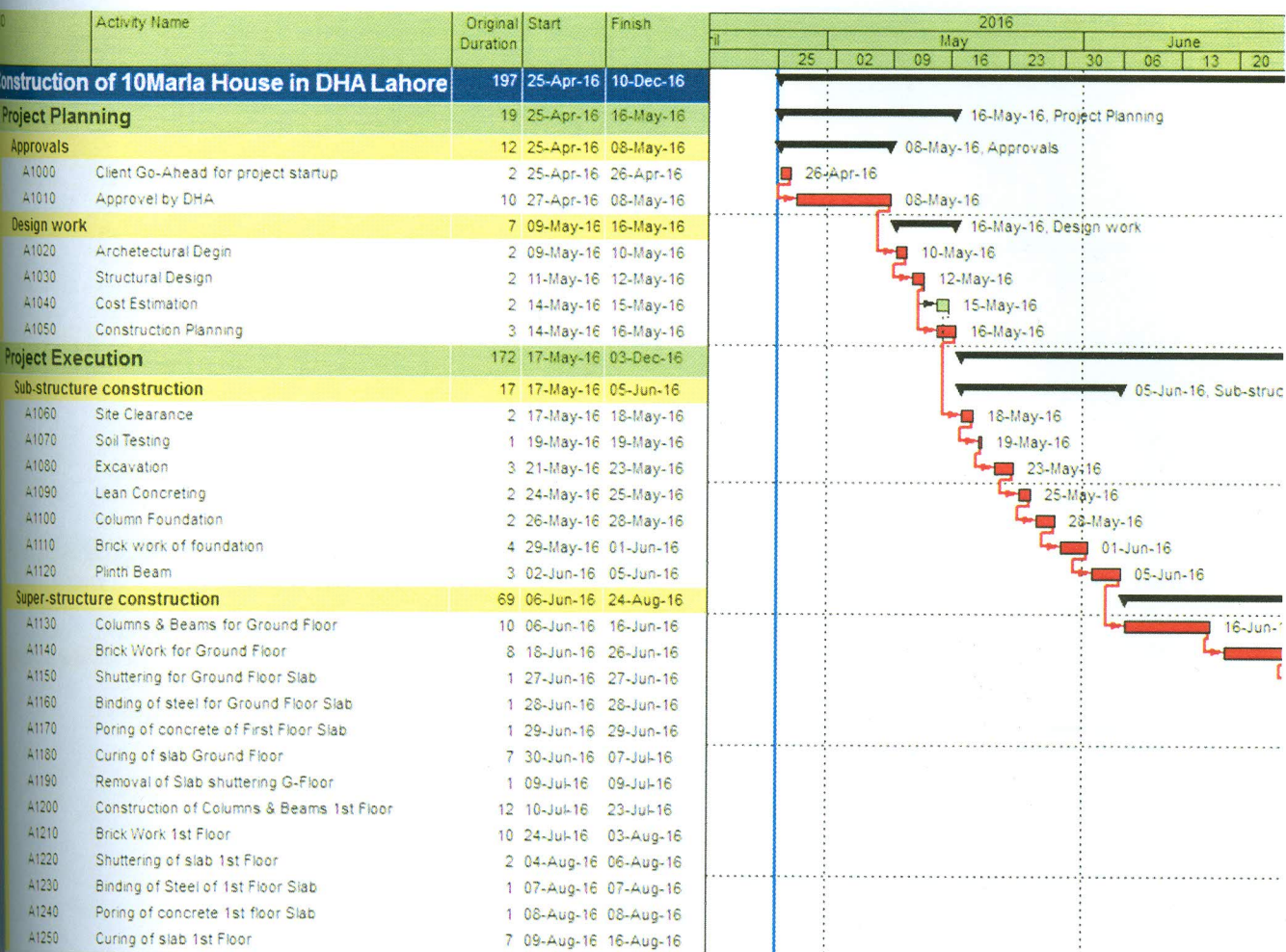


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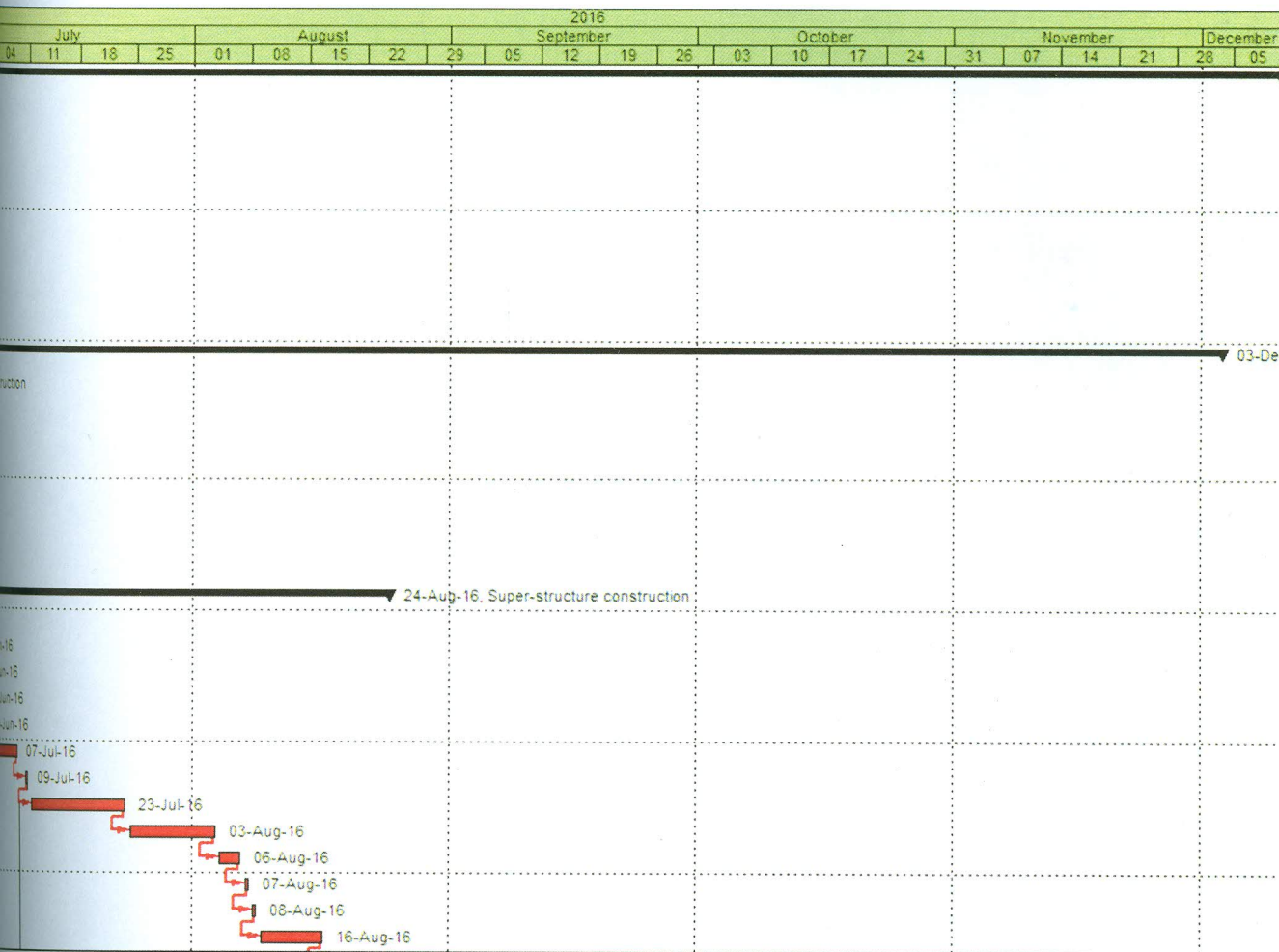


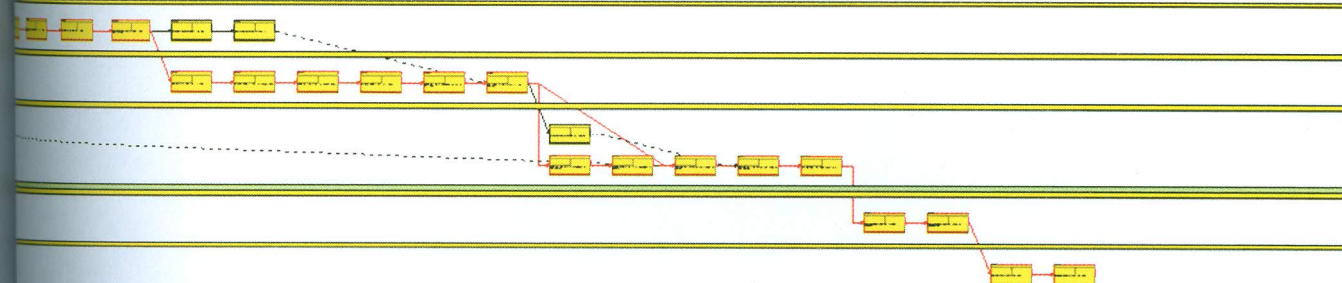
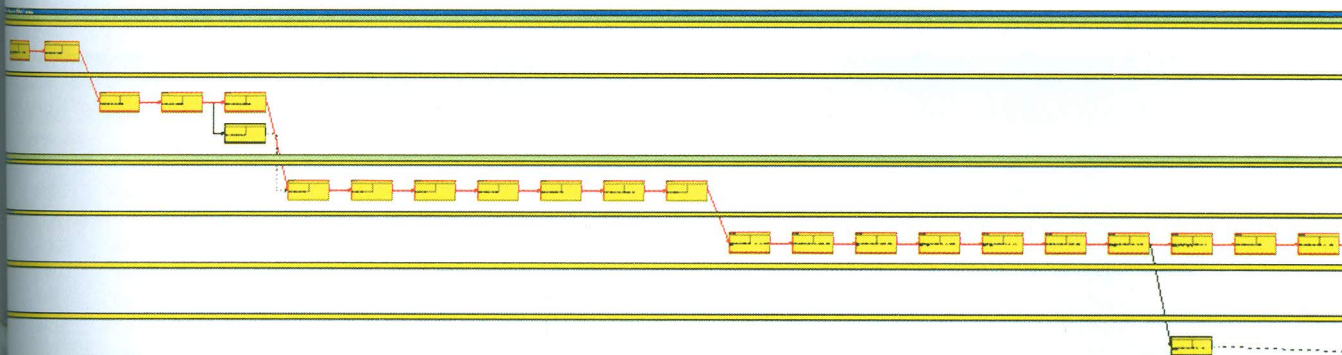
	Activity % Complete	Activity Name	Original Duration	Budget At Completion	Cost Variance	Schedule Variance	Schedule Performance Index	Cost Variance Index
Construction of 10Marla House in DHA Lahore			195	PKR2,092,000	PKR0	PKR11,800	1.04	0.00
Project Planning			19	PKR187,200	PKR0	PKR0	1.00	0.00
Approvals			12	PKR72,600	PKR0	PKR0	1.00	0.00
A1000	100%	Client Go-Ahead for project startup	2	PKR6,600	PKR0	PKR0	1.00	0.00
A1010	100%	Approval by DHA	10	PKR66,000	PKR0	PKR0	1.00	0.00
Design work			7	PKR114,600	PKR0	PKR0	1.00	0.00
A1020	100%	Architectural Design	2	PKR15,200	PKR0	PKR0	1.00	0.00
A1030	100%	Structural Design	2	PKR28,400	PKR0	PKR0	1.00	0.00
A1040	100%	Cost Estimation	2	PKR28,400	PKR0	PKR0	1.00	0.00
A1050	100%	Construction Planning	3	PKR42,600	PKR0	PKR0	1.00	0.00
Project Execution			170	PKR1,865,200	PKR0	PKR11,800	1.09	0.00
Sub-structure construction			17	PKR134,600	PKR0	PKR0	1.00	0.00
A1070	100%	Soil Testing	1	PKR6,600	PKR0	PKR0	1.00	0.00
A1090	100%	Lean Concreting	2	PKR13,200	PKR0	PKR0	1.00	0.00
A1100	100%	Column Foundation	2	PKR13,200	PKR0	PKR0	1.00	0.00
A1060	100%	Site Clearance	2	PKR15,440	PKR0	PKR0	1.00	0.00
A1120	100%	Plinth Beam	3	PKR25,560	PKR0	PKR0	1.00	0.00
A1080	100%	Excavation	3	PKR26,520	PKR0	PKR0	1.00	0.00
A1110	100%	Brick work of foundation	4	PKR34,080	PKR0	PKR0	1.00	0.00
Super-structure construction			66	PKR403,280	PKR0	PKR11,800	0.00	0.00
A1130	0%	Columns & Beams for Ground Floor	10	PKR66,000	PKR0	PKR0	0.00	0.00
A1140	0%	Brick Work for Ground Floor	8	PKR68,160	PKR0	PKR0	0.00	0.00
A1150	0%	Shuttering for Ground Floor Slab	1	PKR1,120	PKR0	PKR0	0.00	0.00
A1160	0%	Binding of steel for Ground Floor Slab	1	PKR9,560	PKR0	PKR0	0.00	0.00
A1170	0%	Poring of concrete of First Floor Slab	1	PKR6,600	PKR0	PKR0	0.00	0.00
A1180	0%	Curing of slab Ground Floor	7	PKR7,840	PKR0	PKR0	0.00	0.00
A1190	0%	Removal of Slab shuttering G-Floor	1	PKR1,120	PKR0	PKR0	0.00	0.00
A1200	0%	Construction of Columns & Beams 1st Floor	12	PKR79,200	PKR0	PKR0	0.00	0.00
A1210	0%	Brick Work 1st Floor	10	PKR85,200	PKR0	PKR0	0.00	0.00
A1240	0%	Poring of concrete 1st floor Slab	1	PKR6,600	PKR0	PKR0	0.00	0.00
A1250	0%	Curing of slab 1st Floor	7	PKR7,840	PKR0	PKR0	0.00	0.00
A1260	0%	Removal of 1st Floor slab Shuttering	1	PKR1,120	PKR0	PKR0	0.00	0.00
A1270	0%	Perapet Wall Construction	3	PKR25,560	PKR0	PKR0	0.00	0.00

	Activity % Complete	Activity Name	Original Duration	Budget At Completion	Cost Variance	Schedule Variance	Schedule Performance Index	Cost Variance Index
A1280	0%	construction of mummy	3	PKR25,560	PKR0	PKR0	0.00	0.00
A1220	100%	Shuttering of slab 1st Floor	2	PKR2,240	PKR0	PKR2,240	0.00	0.00
A1230	100%	Binding of Steel of 1st Floor Slab	1	PKR9,560	PKR0	PKR9,560	0.00	0.00
Flooring			36	PKR306,720	PKR0	PKR0	0.00	0.00
A1290	0%	Sanitary & Water fittings	6	PKR51,120	PKR0	PKR0	0.00	0.00
A1300	0%	Katcha Floor for Ground Floor	5	PKR42,600	PKR0	PKR0	0.00	0.00
A1310	0%	Fixing of tiles of Ground Floor	7	PKR59,640	PKR0	PKR0	0.00	0.00
A1320	0%	Katcha Floor of 1st Floor	6	PKR51,120	PKR0	PKR0	0.00	0.00
A1330	0%	Fixing of tiles including baths of 1st floor	8	PKR68,160	PKR0	PKR0	0.00	0.00
A1340	0%	Top floor and Mummy top flooring	4	PKR34,080	PKR0	PKR0	0.00	0.00
Finishing			123	PKR1,020,600	PKR0	PKR0	0.00	0.00
A1350	0%	Internal Plastering of the house	25	PKR213,000	PKR0	PKR0	0.00	0.00
A1360	0%	External Plastering of House	30	PKR255,600	PKR0	PKR0	0.00	0.00
A1370	0%	Fixing of Doors & Windows of the House	10	PKR95,600	PKR0	PKR0	0.00	0.00
A1380	0%	Wood Work of TV Lounges & Rooms	10	PKR95,600	PKR0	PKR0	0.00	0.00
A1390	0%	Painting of internal surfaces of House	15	PKR154,200	PKR0	PKR0	0.00	0.00
A1400	0%	Painting of External Surface of the house	17	PKR174,760	PKR0	PKR0	0.00	0.00
A1410	0%	Installation of UPS Fans etc	4	PKR31,840	PKR0	PKR0	0.00	0.00
Project Closure			6	PKR39,600	PKR0	PKR0	0.00	0.00
Internal Closure			3	PKR19,800	PKR0	PKR0	0.00	0.00
A1420	0%	Final Inspection by Project Engineer	2	PKR13,200	PKR0	PKR0	0.00	0.00
A1430	0%	Final Inspection by Director Engineering	1	PKR6,600	PKR0	PKR0	0.00	0.00
Validation by Client			3	PKR19,800	PKR0	PKR0	0.00	0.00
A1440	0%	Validation visit by the Client	1	PKR6,600	PKR0	PKR0	0.00	0.00
A1450	0%	Handing over to the Client	2	PKR13,200	PKR0	PKR0	0.00	0.00



ID	Activity Name	Original Duration	Start	Finish	2016											
					Jul	May					June					
						25	02	09	16	23	30	06	13	20		
A1260	Removal of 1st Floor slab Shuttering	1	17-Aug-16	17-Aug-16												
A1270	Perapet Wall Construction	3	18-Aug-16	21-Aug-16												
A1280	construction of mumty	3	22-Aug-16	24-Aug-16												
Flooring		36	18-Aug-16	28-Sep-16												
A1290	Sanitary & Water fittings	6	18-Aug-16	24-Aug-16												
A1300	Katcha Floor for Ground Floor	5	25-Aug-16	30-Aug-16												
A1310	Fixing of tiles of Ground Floor	7	31-Aug-16	07-Sep-16												
A1320	Katcha Floor of 1st Floor	6	08-Sep-16	14-Sep-16												
A1330	Fixing of tiles including baths of 1st floor	8	15-Sep-16	24-Sep-16												
A1340	Top floor and Mumty top flooring	4	25-Sep-16	28-Sep-16												
Finishing		126	10-Jul-16	03-Dec-16												
A1350	Internal Plastering of the house	25	10-Jul-16	07-Aug-16												
A1360	External Plastering of House	30	29-Sep-16	02-Nov-16												
A1370	Fixing of Doors & Windows of the House	10	29-Sep-16	10-Oct-16												
A1380	Wood Work of TV Lounges & Rooms	10	11-Oct-16	22-Oct-16												
A1390	Painting of internal surfaces of House	15	23-Oct-16	08-Nov-16												
A1400	Painting of External Surface of the house	17	09-Nov-16	28-Nov-16												
A1410	Installation of UPS Fans ets	4	29-Nov-16	03-Dec-16												
Project Closure		6	04-Dec-16	10-Dec-16												
Internal Closure		3	04-Dec-16	06-Dec-16												
A1420	Final Inspection by Project Engineer	2	04-Dec-16	05-Dec-16												
A1430	Final Inspection by Director Engineering	1	06-Dec-16	06-Dec-16												
Validation by Client		3	07-Dec-16	10-Dec-16												
A1440	Validtion visit by the Client	1	07-Dec-16	07-Dec-16												
A1450	Handing over to the Client	2	08-Dec-16	10-Dec-16												

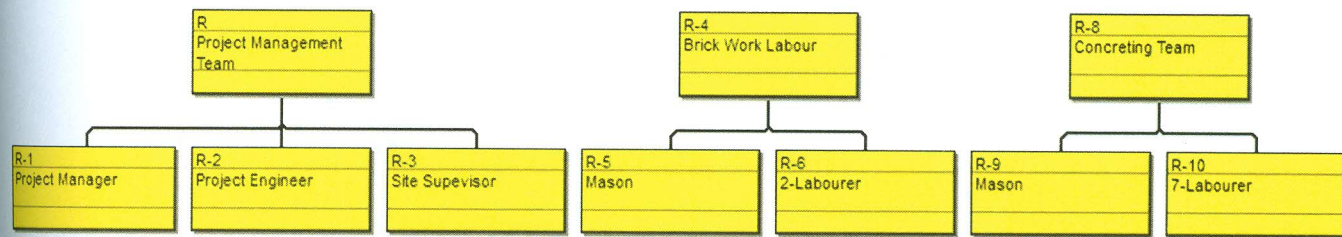




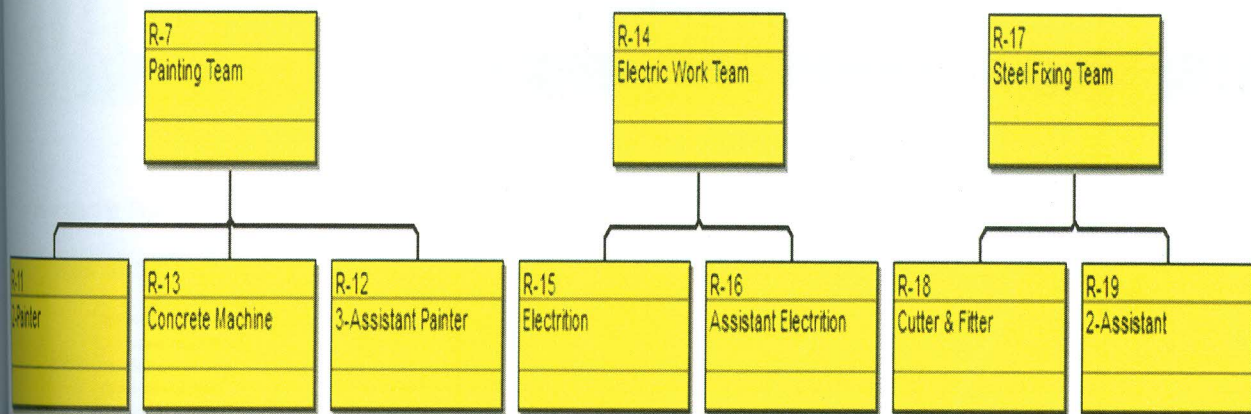
Project Cost and Resources before Leveling

Activity Name	Original Duration	Start	Finish	Resources	Budgeted Labor Cost
Construction of 10Marla House in DHA Lahore	197	25-Apr-16	10-Dec-16		PKR2,092,000
Project Planning	19	25-Apr-16	16-May-16		PKR187,200
Approvals	12	25-Apr-16	08-May-16		PKR72,600
A1000 Client Go-Ahead for project startup	2	25-Apr-16	26-Apr-16	Project Management Team	PKR6,600
A1010 Approval by DHA	10	27-Apr-16	08-May-16	Project Management Team	PKR66,000
Design work	7	09-May-16	16-May-16		PKR114,600
A1020 Architectural Design	2	09-May-16	10-May-16	Design Team	PKR15,200
A1030 Structural Design	2	11-May-16	12-May-16	Design Team, Project Management Team	PKR28,400
A1040 Cost Estimation	2	14-May-16	15-May-16	Project Management Team, Design Team	PKR28,400
A1050 Construction Planning	3	14-May-16	16-May-16	Design Team, Project Management Team	PKR42,600
Project Execution	172	17-May-16	03-Dec-16		PKR1,865,200
Sub-structure construction	17	17-May-16	05-Jun-16		PKR134,600
A1070 Soil Testing	1	19-May-16	19-May-16	Project Management Team	PKR6,600
A1090 Lean Concreting	2	24-May-16	25-May-16	Concreting Team, Project Management Team	PKR13,200
A1100 Column Foundation	2	26-May-16	28-May-16	Project Management Team, Concreting Team	PKR13,200
A1080 Site Clearance	2	17-May-16	18-May-16	Project Management Team, 2-Labourer	PKR15,440
A1120 Plinth Beam	3	02-Jun-16	05-Jun-16	Project Management Team, Brick Work Labour	PKR25,560
A1080 Excavation	3	21-May-16	23-May-16	7-Labourer, Project Management Team	PKR26,520
A1110 Brick work of foundation	4	29-May-16	01-Jun-16	Project Management Team, Brick Work Labour	PKR34,080
Super-structure construction	69	06-Jun-16	24-Aug-16		PKR403,280
A1150 Shuttering for Ground Floor Slab	1	27-Jun-16	27-Jun-16	2-Labourer	PKR1,120
A1190 Removal of Slab shuttering G-Floor	1	09-Jul-16	09-Jul-16	2-Labourer	PKR1,120
A1260 Removal of 1st Floor slab Shuttering	1	17-Aug-16	17-Aug-16	2-Labourer	PKR1,120
A1220 Shuttering of slab 1st Floor	2	04-Aug-16	06-Aug-16	2-Labourer	PKR2,240
A1170 Poring of concrete of First Floor Slab	1	29-Jun-16	29-Jun-16	Project Management Team, Concreting Team	PKR6,600
A1240 Poring of concrete 1st floor Slab	1	08-Aug-16	08-Aug-16	Concreting Team, Project Management Team	PKR6,600
A1180 Curing of slab Ground Floor	7	30-Jun-16	07-Jul-16	2-Labourer	PKR7,840
A1250 Curing of slab 1st Floor	7	09-Aug-16	16-Aug-16	2-Labourer	PKR7,840
A1160 Binding of steel for Ground Floor Slab	1	28-Jun-16	28-Jun-16	Steel Fixing Team, Project Management Team	PKR9,560
A1230 Binding of Steel of 1st Floor Slab	1	07-Aug-16	07-Aug-16	Project Management Team, Steel Fixing Team	PKR9,560
A1270 Perapet Wall Construction	3	18-Aug-16	21-Aug-16	Project Management Team, Brick Work Labour	PKR25,560
A1280 construction of muntly	3	22-Aug-16	24-Aug-16	Brick Work Labour, Project Management Team	PKR25,560
A1130 Columns & Beams for Ground Floor	10	06-Jun-16	16-Jun-16	Concreting Team, Project Management Team	PKR66,000

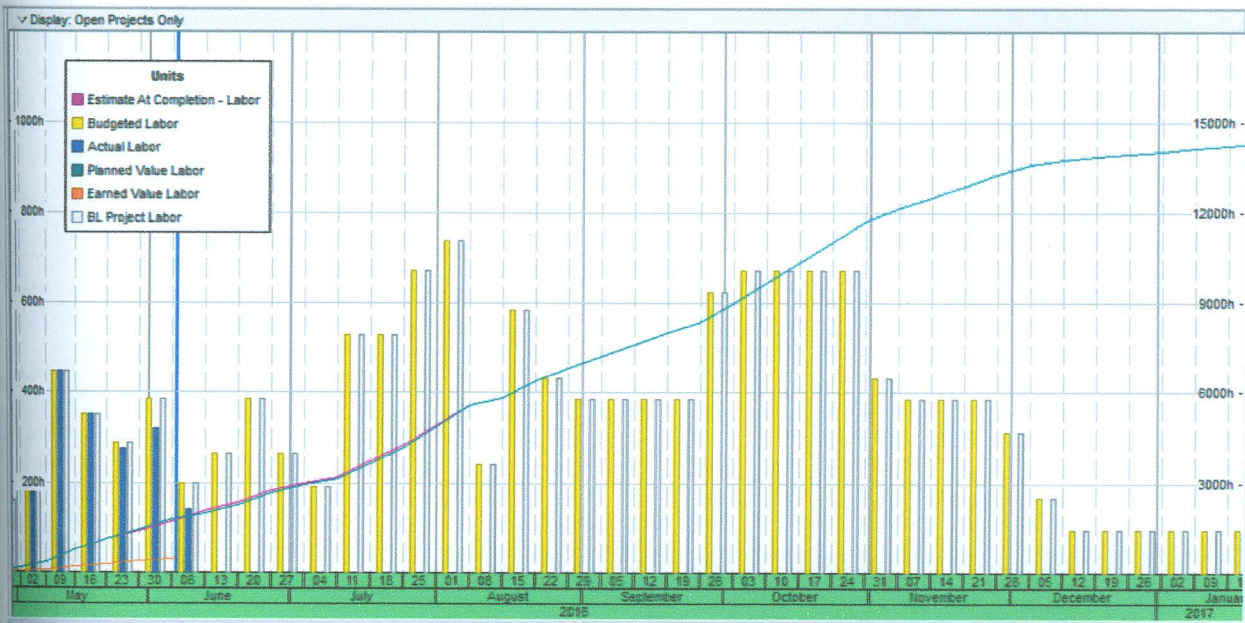
Activity Name	Original Duration	Start	Finish	Resources	Budgeted Labor Cost
A1140 Brick Work for Ground Floor	8	18-Jun-16	26-Jun-16	Project Management Team, Brick Work Labour	PKR68,160
A1200 Construction of Columns & Beams 1st Floor	12	10-Jul-16	23-Jul-16	Project Management Team, Concreting Team	PKR79,200
A1210 Brick Work 1st Floor	10	24-Jul-16	03-Aug-16	Project Management Team, Brick Work Labour	PKR85,200
Flooring	36	18-Aug-16	28-Sep-16		PKR306,720
A1340 Top floor and Mumty top flooring	4	25-Sep-16	28-Sep-16	Project Management Team, Brick Work Labour	PKR31,080
A1300 Katcha Floor for Ground Floor	5	25-Aug-16	30-Aug-16	Project Management Team, Brick Work Labour	PKR42,600
A1290 Sanitary & Water fittings	6	18-Aug-16	24-Aug-16	Brick Work Labour, Project Management Team	PKR51,120
A1320 Katcha Floor of 1st Floor	6	08-Sep-16	14-Sep-16	Project Management Team, Brick Work Labour	PKR51,120
A1310 Fixing of tiles of Ground Floor	7	31-Aug-16	07-Sep-16	Brick Work Labour, Project Management Team	PKR59,640
A1330 Fixing of tiles including baths of 1st floor	8	15-Sep-16	24-Sep-16	Brick Work Labour, Project Management Team	PKR68,160
Finishing	126	10-Jul-16	03-Dec-16		PKR1,020,600
A1410 Installation of UPS Fans etc	4	29-Nov-16	03-Dec-16	Project Management Team, Electric Work Team	PKR31,840
A1370 Fixing of Doors & Windows of the House	10	29-Sep-16	10-Oct-16	Project Management Team, Steel Fixing Team	PKR95,600
A1380 Wood Work of TV Lounges & Rooms	10	11-Oct-16	22-Oct-16	Steel Fixing Team, Project Management Team	PKR95,600
A1390 Painting of internal surfaces of House	15	23-Oct-16	08-Nov-16	Project Management Team, Painting Team	PKR154,200
A1400 Painting of External Surface of the house	17	09-Nov-16	28-Nov-16	Painting Team, Project Management Team	PKR174,760
A1350 Internal Plastering of the house	25	10-Jul-16	07-Aug-16	Brick Work Labour, Project Management Team	PKR213,000
A1360 External Plastering of House	30	29-Sep-16	02-Nov-16	Project Management Team, Brick Work Labour	PKR255,600
Project Closure	6	04-Dec-16	10-Dec-16		PKR39,600
Internal Closure	3	04-Dec-16	06-Dec-16		PKR19,800
A1430 Final Inspection by Director Engineering	1	06-Dec-16	06-Dec-16	Project Management Team	PKR6,600
A1420 Final Inspection by Project Engineer	2	04-Dec-16	05-Dec-16	Project Management Team	PKR13,200
Validation by Client	3	07-Dec-16	10-Dec-16		PKR19,800
A1440 Validation visit by the Client	1	07-Dec-16	07-Dec-16	Project Management Team	PKR6,600
A1450 Handing over to the Client	2	08-Dec-16	10-Dec-16	Project Management Team	PKR13,200



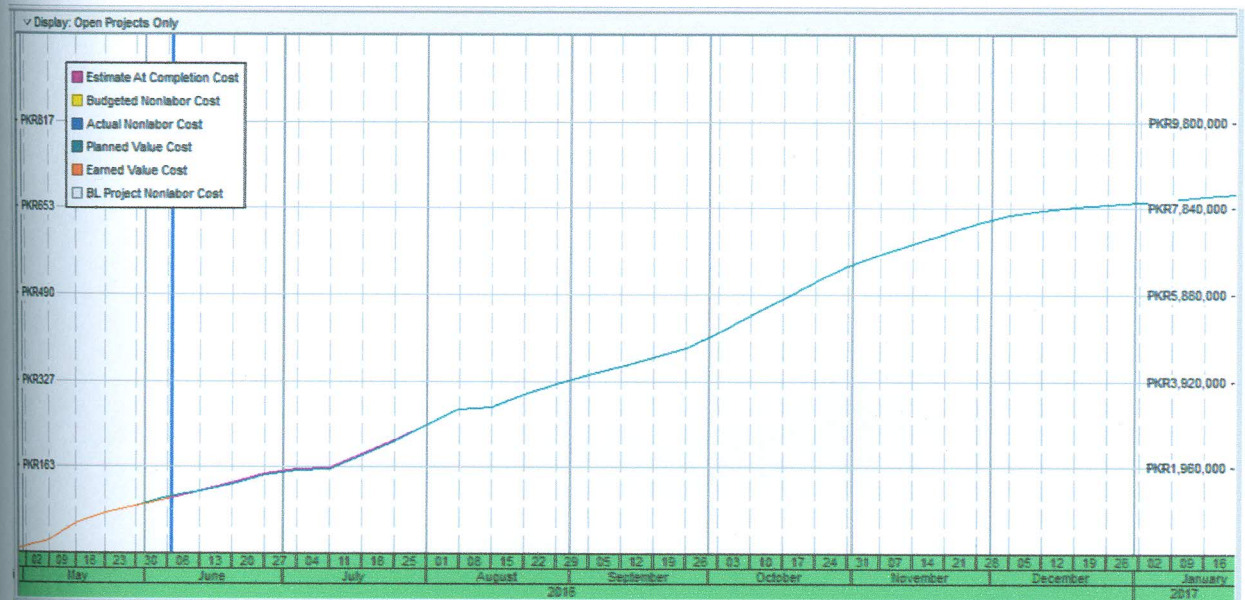
Resource Break down Structure



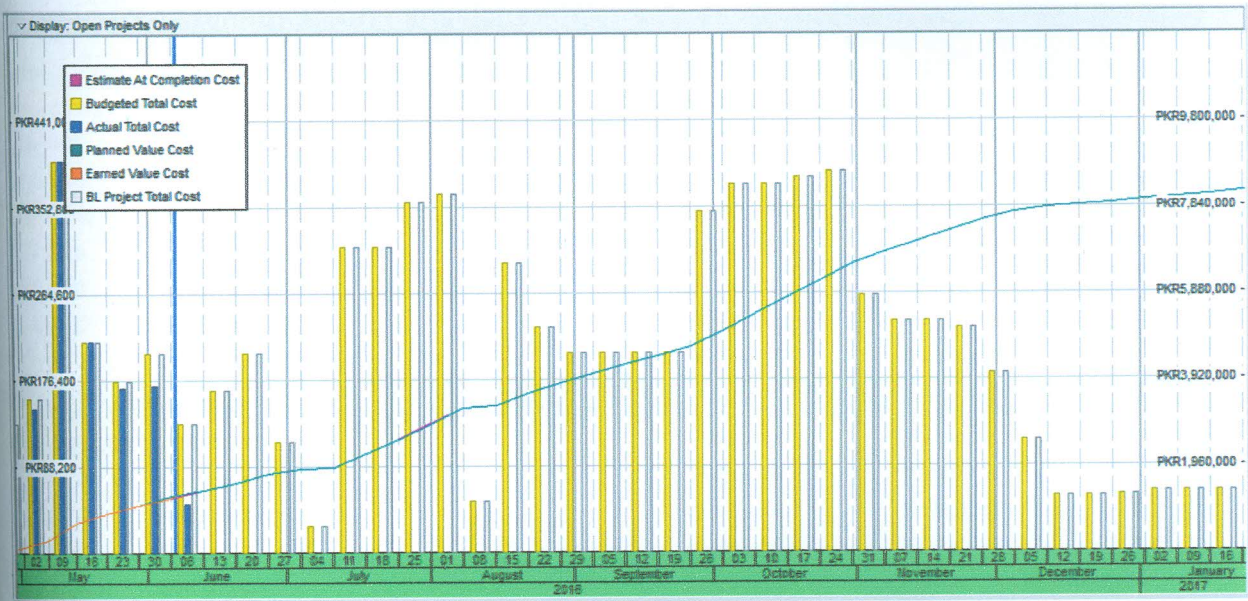
Labor unit curve:



S curve Non labor



S Curve



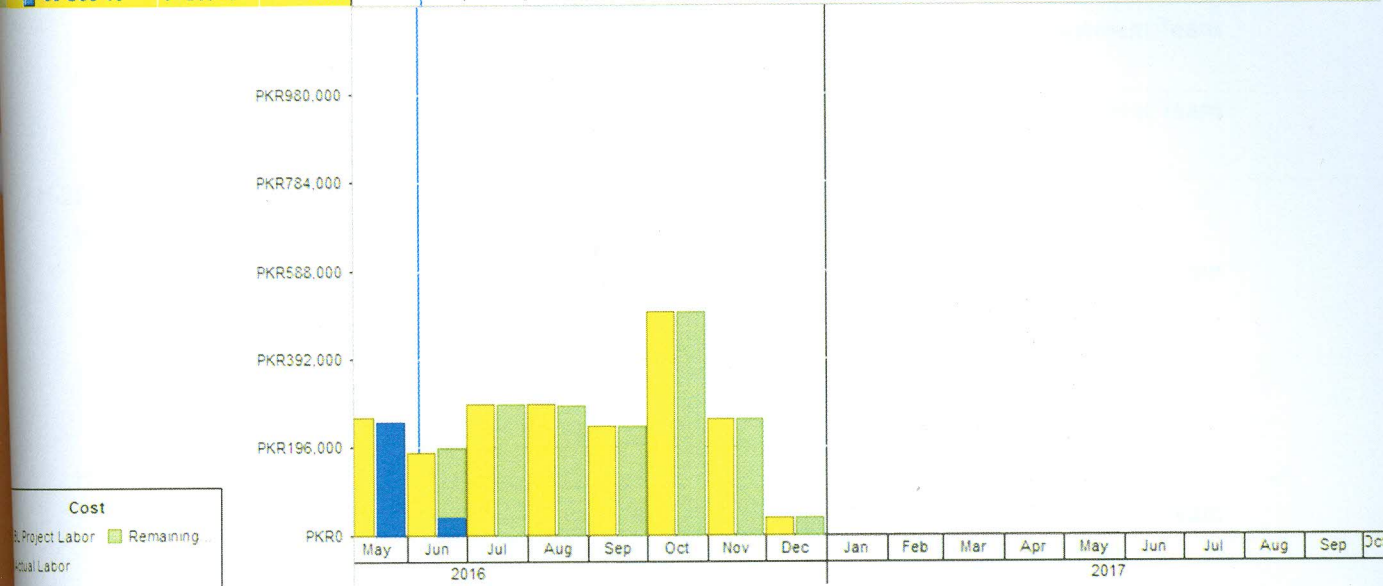
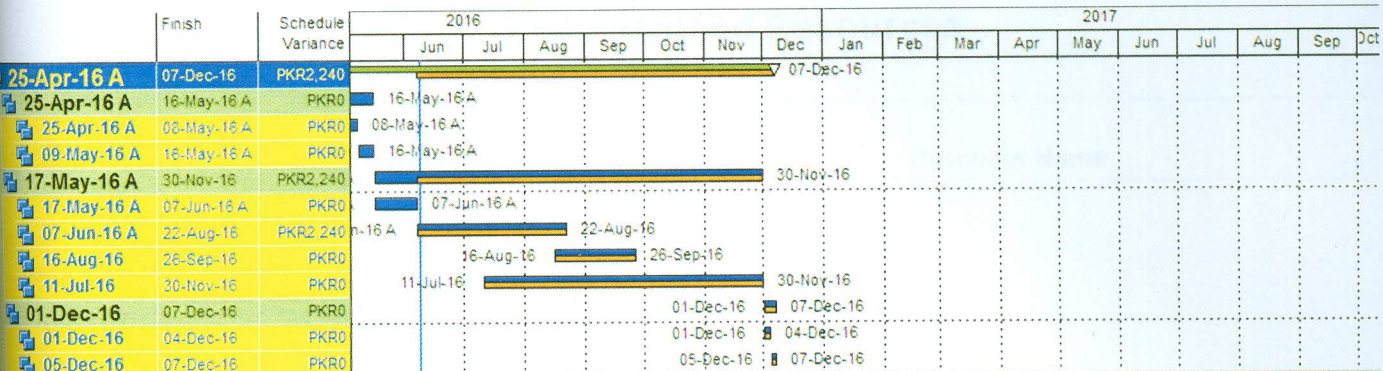
Activity ID	Activity Name	Planned Start	Planned Finish	Original Duration
Construction of 10Marla House in DHA Lahore		25-Apr-16	18-Feb-17	257
Project Planning		25-Apr-16	16-May-16	19
Approvals		25-Apr-16	08-May-16	12
A1000	Client Go-Ahead for project startup	25-Apr-16	26-Apr-16	2
A1010	Approval by DHA	27-Apr-16	08-May-16	10
Design work		09-May-16	16-May-16	7
A1020	Archetectural Degin	09-May-16	10-May-16	2
A1030	Structural Design	11-May-16	12-May-16	2
A1040	Cost Estimation	14-May-16	15-May-16	2
A1050	Construction Planning	14-May-16	16-May-16	3
Project Execution		17-May-16	11-Feb-17	232
Sub-structure construction		17-May-16	05-Jun-16	17
A1060	Site Clearance	17-May-16	18-May-16	2
A1070	Soil Testing	19-May-16	19-May-16	1
A1080	Excavation	21-May-16	23-May-16	3
A1090	Lean Concreting	24-May-16	25-May-16	2
A1100	Column Foundation	26-May-16	28-May-16	2
A1110	Brick work of foundation	29-May-16	01-Jun-16	4
A1120	Plinth Beam	02-Jun-16	05-Jun-16	3
Super-structure construction		07-Jun-16	23-Aug-16	67
A1130	Columns & Beams for Ground Floor	07-Jun-16	18-Jun-16	10
A1140	Brick Work for Ground Floor	19-Jun-16	27-Jun-16	8
A1150	Shuttering for Ground Floor Slab	28-Jun-16	28-Jun-16	1
A1160	Binding of steel for Ground Floor Slab	29-Jun-16	29-Jun-16	1
A1170	Poring of concrete of First Floor Slab	30-Jun-16	30-Jun-16	1
A1180	Curing of slab Ground Floor	02-Jul-16	09-Jul-16	7
A1190	Removal of Slab shuttering G-Floor	10-Jul-16	10-Jul-16	1
A1200	Construction of Columns & Beams 1st Floor	11-Jul-16	24-Jul-16	12
A1210	Brick Work 1st Floor	25-Jul-16	04-Aug-16	10
A1220	Shuttering of slab 1st Floor	04-Aug-16	06-Aug-16	2
A1230	Binding of Steel of 1st Floor Slab	06-Aug-16	06-Aug-16	1
A1240	Poring of concrete 1st floor Slab	07-Aug-16	07-Aug-16	1
A1250	Curing of slab 1st Floor	08-Aug-16	15-Aug-16	7
A1260	Removal of 1st Floor slab Shuttering	16-Aug-16	16-Aug-16	1
A1270	Perapet Wall Construction	17-Aug-16	20-Aug-16	3
A1280	construction of mumty	21-Aug-16	23-Aug-16	3
Flooring		24-Aug-16	04-Oct-16	36
A1290	Sanitory & Water fittings	24-Aug-16	30-Aug-16	6
A1300	Katcha Floor for Ground Floor	31-Aug-16	05-Sep-16	5
A1310	Fixing of tiles of Ground Floor	06-Sep-16	13-Sep-16	7
A1320	Katcha Floor of 1st Floor	14-Sep-16	20-Sep-16	6
A1330	Fixing of tiles including baths of 1st floor	21-Sep-16	29-Sep-16	8
A1340	Top floor and Mumty top flooring	01-Oct-16	04-Oct-16	4
Finishing		05-Oct-16	11-Feb-17	111
A1350	Interal Plastering of the house	05-Oct-16	02-Nov-16	25
A1360	External Plastering of House	03-Nov-16	07-Dec-16	30

Activity ID	Activity Name	Planned Start	Planned Finish	Original Duration
A1370	Fixing of Doors & Windows of the House	08-Dec-16	19-Dec-16	10
A1380	Wood Work of TV Lounges & Rooms	20-Dec-16	31-Dec-16	10
A1390	Painting of internal surfaces of House	01-Jan-17	17-Jan-17	15
A1400	Painting of External Surface of the house	18-Jan-17	06-Feb-17	17
A1410	Installation of UPS Fans ets	07-Feb-17	11-Feb-17	4
Project Closure		12-Feb-17	18-Feb-17	6
Internal Closure		12-Feb-17	14-Feb-17	3
A1420	Final Inspection by Project Engineer	12-Feb-17	13-Feb-17	2
A1430	Final Inspection by Director Engineering	14-Feb-17	14-Feb-17	1
Validation by Client		15-Feb-17	18-Feb-17	3
A1440	Validation visit by the Client	15-Feb-17	15-Feb-17	1
A1450	Handing over to the Client	16-Feb-17	18-Feb-17	2

Resource Sheet

Resource ID	Resource Name	Resource Type	U	F	Default Units / Time
R	Project Management Team	Labor			8/d
R-1	Project Manager	Labor			8/d
R-2	Project Engineer	Labor			8/d
R-3	Site Supervisor	Labor			8/d
R-4	Brick Work Labour	Labor			8/d
R-5	Mason	Labor			8/d
R-6	2-Labourer	Labor			8/d
R-8	Concreting Team	Labor			8/d
R-9	Mason	Labor			8/d
R-10	7-Labourer	Labor			8/d
R-7	Painting Team	Labor			8/d
R-11	2-Painter	Labor			8/d
R-13	Concrete Machine	Nonlabor			8/d
R-12	3-Assistant Painter	Labor			8/d
R-14	Electric Work Team	Labor			8/d
R-15	Electritition	Labor			8/d
R-16	Assistant Electritition	Labor			8/d
R-17	Steel Fixing Team	Labor			8/d
R-18	Cutter & Fitter	Labor			8/d
R-19	2-Assistant	Labor			8/d

Tracking Gantt

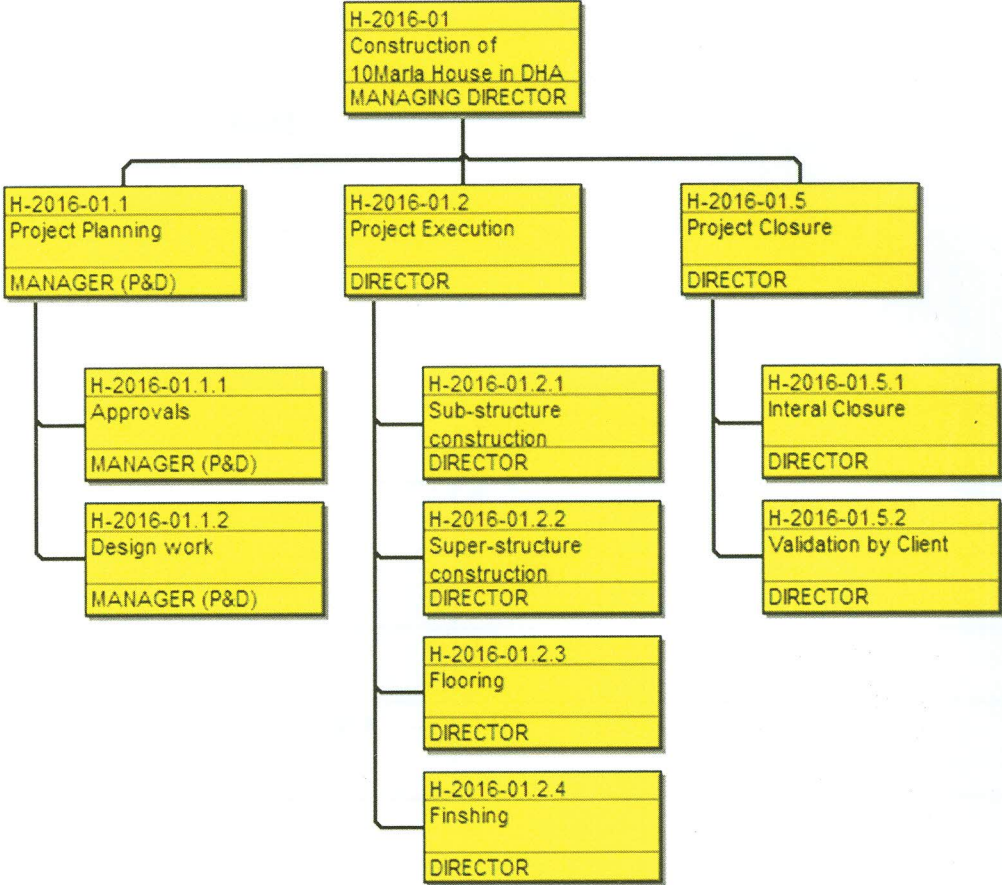


PW-04 WBS Assigned Resources

er's Notes:

BS Code	Resource Code	Resource Name
RS		
H-2016-01		
H-2016-01.1		
H-2016-01.1.1		
	R	Project Management Team
H-2016-01.1.2		
	R	Project Management Team
	R-20	Design Team
H-2016-01.2		
H-2016-01.2.1		
	R	Project Management Team
	R-4	Brick Work Labour
	R-4.R-6	2-Labourer
	R-8	Concreting Team
	R-8.R-10	7-Labourer
H-2016-01.2.2		
	R	Project Management Team
	R-4	Brick Work Labour
	R-4.R-6	2-Labourer
	R-8	Concreting Team
	R-17	Steel Fixing Team
H-2016-01.2.3		
	R	Project Management Team
	R-4	Brick Work Labour
H-2016-01.2.4		
	R	Project Management Team
	R-4	Brick Work Labour
	R-7	Painting Team
	R-14	Electric Work Team
	R-17	Steel Fixing Team
H-2016-01.5		
H-2016-01.5.1		
	R	Project Management Team
H-2016-01.5.2		
	R	Project Management Team

oter 1



EARNED VALUE ANALYSIS

RESULTS:-

At the end of 6th June 2016 following were the results of EVM

Sr.	Parameter	Value	Interpretation
1	Cost Variance	0	Project is within budget
2	Schedule Variance	+11200	Project is ahead schedule
3	Cost Variance Index	1.0	Project is within budget
4	Schedule Variance Index	1.04	Project is ahead schedule

CONCLUSION:-

As the values of the Earned Value Analysis shows that project is within planned cost and ahead schedule so no need to take any corrective action two steps are recommended:

- Project should go smoothly as going now for the purpose careful monitoring must continue and all the risks should be identified and managed timely
- Any impact of ahead schedule on the number of labour hours available or planned should be observed closely

Issue Log

	Issue	Reason	Solution	Source used to hunt the solution	Remarks
	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. Faisal Shahzad	Addition of new currency details help in the project
	How to define any unit of measure	Details are needed of 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. Faisal Shahzad	New unit information can be added
	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
	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
	Set the data 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

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