

PROJECT REPORT

(BABA FARID TOWN PROJECT-TAHIR & CO)

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ENROLLMENT: 03-298141-013

SEMESTER: Fall-2015, MSPM - III

PROGRAM: MS (PROJECT MANAGEMENT)



BAHRIA UNIVERSITY LAHORE CAMPUS

SUBMITTED TO: Mr. Muhammad Faisal Shahzad

SUBMISSION DATE: 17-Jan-2016

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CERTIFICATE

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

It is witnessed that Mr. Usman Tahir Khan Enrollment: 03-298141-013 Class: **MSPM-III** Semester: **Fall 2015** has contacted / visited / frequently utilized our premises / participated in our real-time projects for implementing project management skills using Primavera P6 as a leading software tool.

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

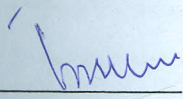
1. Baba Farid Town Project

He, in case of visiting/ frequently utilized premises, has been found skillful in applying Primavera P6 in the following highlighted fields (planning, scheduling, earned value analysis, performance monitoring, and report generation).

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

Certified By Company Official:

Tahir Mahmood Khan
Contractor
TAHIR & CO:


Mr. Tahir Mahmood Khan
CEO

Tahir & Co

Verified By Trainer:

Mr. Muhammad Faisal Shahzad
Lecturer

Bahria University

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Preface

This report is an original intellectual product of Usman Tahir Khan. Primavera P6 8.3 software working along with theoretical work in this report is according to the guidelines guided by the Bahria University Lahore Campus for the completion of the Primavera Software course MSP-631.

ACKNOWLEDGEMENT

This report would not be possible without the essential support of Mr. Muhammad Faisal Shahzad. I am very thankful to Mr. Muhammad Faisal Shahzad and extend my sincere gratitude for his continuous support throughout the course.

I am also thankful to M/S Tahir & Co's management and staff for their technical support concerning projects implementation.

I am also grateful to Bahria University for provision of technical support and expertise crucial for the said project.

Special thanks to my family, friends and class fellows for their encouragement and kind cooperation which helped complete this project.

Acronyms/Abbreviation

TMA	Town Municipal Administration
MEPCO	Multan Electric Power Company
P6	Primavera Version 6
PM	Project Management
PMO	Project Management Office
EVM	Earned Value Management
EAC	Estimate at Completion
CV	Cost Variance
SV	Schedule Variance
SPI	Schedule Performance Index
CPI	Cost Performance Index
BAC	Budget at Completion
ETC	Estimate to Complete

INTRODUCTION

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 to five process Groups” (PMI)

Processes in Project Management

Initiating, Planning, Executing, Monitoring & Controlling and Closing are five process groups in Project Management.

Resources in Project Management

Resources are needed to perform project tasks. Resources can be machinery, people, facilities, financing or any other thing needed for project completion.

Schedule in Project Management

Time sequenced or time based description of all project related activities are called project schedule. Milestone chart, Gantt chart, Task List and Network Diagram are few techniques showing project schedule.

Critical Path Method, Program Evaluation & Review Technique and Critical Chain Method are project schedule Analysis techniques.

Resource Leveling and Resource Smoothing are resource optimization techniques.

Earned Value Management

Earned Value Management (EVM) was introduced by United States Air Force in 1966. EVM is a broader term for 32 guidelines which define a set of requirements which must be met by a contractor's Management System.

EVM is used for:

- To support managers with a practical level summary needed for decision making.
- To provide a basis for progress analysis against baseline plan.
- To relate cost performance and schedule.
- EVM is a proactive approach towards project management.
- To relate time phased budgets to a particular task.

Contractor's Earned Value Management system benefits to both the contractor and customer after successful implementation. Contractor benefits from improved visibility and control whereas the customer feels confidence in contractor's ability to handle the project.

PRIMAVERA P6

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.

Benefits of using Primavera P6

Primavera P6 helps planning and managing project activities easily. Primavera P6 helps resource optimization and allows collaboration between all the users in a project. It helps

understand project structure and provides quick forecasting of activities, WBS or Project. Primavera P6 brings visibility and keeps track of past project performance.

- Primavera P6 allows multiple users to work on a single project at the same time.
- Primavera P6 can develop a detailed website consisting of project resources, activities, reports, risks, issues and Work Breakdown Structure.
- Primavera P6 allows you to create custom fields.
- Primavera P6 allows you to utilize more than 200 columns.
- Primavera P6 allows you to establish more than one relationship between any two activities.
- Primavera P6 allows you to track and compare multiple WBS or Projects.

Implementation

Primavera P6 is being used world over as a single Project Scheduling Software or as an Enterprise level solution. Before implementation, the client must consider resources, templates, change control, Standards, Rolling wave schedule. Primavera P6 is very comprehensive, sophisticated and powerful solutions and needs capable users to handle its working. The target organization should check if project management practices exist in the organization or should wait for the right time for Primavera P6 solution implementation. It is a very sophisticated solution and needs trained users.

INTRODUCTION OF TAHIR & CO

Mr. Tahir Mahmood Khan graduated in Year 1967 and started helping his father Mr. Muhammad Bashir Khan in his construction business activities in Vehari city. After his father's death in 1985, Mr. Tahir Mahmood Khan registered his own firm with the name of M/S Tahir & Co and started working as Govt. Contractor with Buildings Department Vehari, TMA Vehari and National Highway Department Vehari.

- Since its inception, Tahir & Co has constructed more than 100 primary, middle and higher secondary schools in district Vehari.
- Tahir & Co has repaired more than 200 schools, colleges, basic health units, Govt. offices and hospitals so far.
- Tahir & Co has constructed more than 50 new homes as a private contractor.

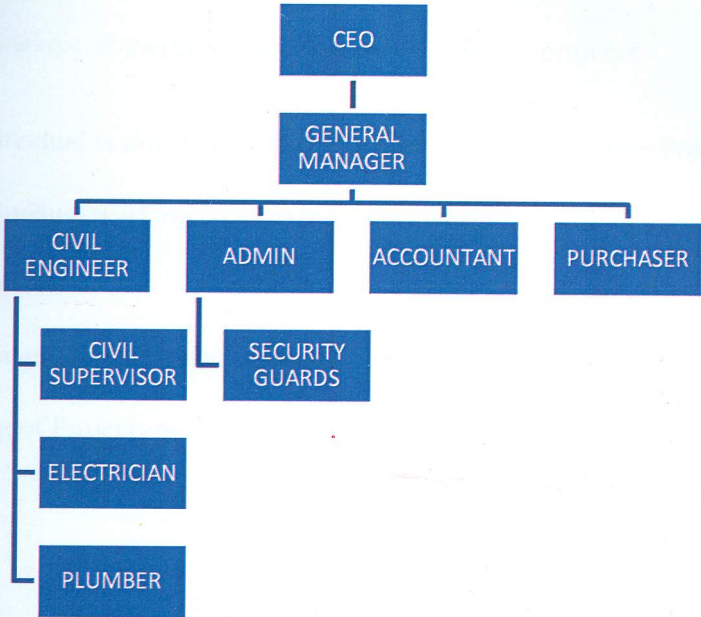
Project Management structure in Tahir & Co

- Tahir & Co is a functional organization where CEO gives vision to the firm's General Manager who commands the Engineers, staff, sub-contractors and labor. Each Professional is Head of his own Functional assignment.
- All projects within Tahir & Co run under the command of General Manager. CEO mostly looks after financing, regulatory and Govt. agencies matters. General Manager looks after most of the projects and reports to the CEO. Thus projects lack the strategic

vision of the Firm. Project Scope remains limited and there is very minor input into the project from Engineer. This approach cannot help execute large size Project.

- Tahir & Co's CEO is very experienced and visionary person who wants to establish the firm as a professional organization to meet expanding business needs and to face the future challenges.

Existing Organizational Structure of Tahir & Co



Issues being Faced in Projects in Tahir & Co's existing set up

Tahir & Co's Strategic Management has following issues in projects.

- Each individual is reluctant to share its limited time with other Project.
- Each individual working on a particular project is not willing to provide resources to other projects.
- Admin cannot hire new staff without General Manager and CEO approval.
- Financing of Projects need CEO's Approval.

Need for Project Management Office

Tahir & Co needs a PMO which is explained below

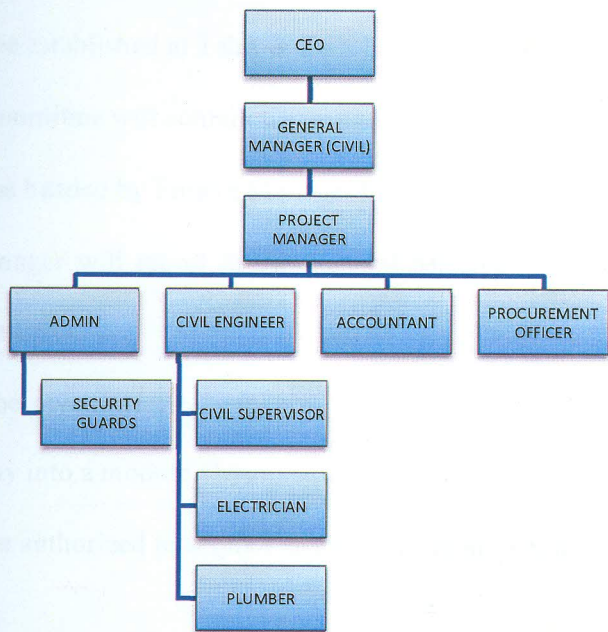
What is PMO

Project Management Office is an Organizational unit responsible to the development and advancement of best practices in project management processes and guidelines. PMO speak same language and common project management methodology across infrastructure, born to serve project managers. The most basic function of PMO is to support the management in projects environment within the organization, but when PMO is operating at the enterprise level, they are serving strategic functions to ensure the successful management of Programs and Portfolio within the performing organization.

Organizations establish Project Management Offices due to following reasons.

- Increased Workload such as various construction contracts.
- To remain focused on Prime Business Area which could be new construction rather repairs contracts.
- To Benefit from Expertise of a Project Manager applying the Best Project Management practices.
- To remove differences among diverse background Professionals.
- Organization's long term sustainability.
- To acquire necessary resources from strategic management.
- To gain importance within an organization.

Proposed PMO in Tahir & Co



Following is the proposed PMO structure in Tahir & Co.

- PMO will be established under direct control of Tahir & Co's General Manager.
- PMO will be established at Tahir & Co's head office located at Sharqi Colony Vehari.
- Steering Committee will contain Chairman, President and Project Manager.
- PMO will be headed by Project Manager Mr. Sagheer Ahmed.
- Project Manager will report to the General Manager and the General Manager will report to the CEO.
- PMO will be given priority resources due to the significant importance to transform the Company into a modern Organization.
- PMO will be authorized to acquire any human resource within 3 days.

PMO Roles

- PMO will be headed by Project Manager
- Human Resource matters will be seen by Admin directly reporting to Project Manager.
- Procurement matters will be seen by Procurement officer directly reporting to Project Manager.
- Financial matters will be seen by Accountant directly reporting to Project Manager.
- IT matters will be seen by Civil Engineer directly reporting to Project Manager.
- Risk Management will be conducted by Project Manager directly reporting to General Manager.

- Each Manager will supervise various daily wages/contracted teams. Each team will have a team leader directly reporting to the concerned Manager.

Benefits of Project Management Office

Now a day's organization can enjoy great project success by establishing a Project Management Office. PMO staff sets standard through which projects are managed and run. Some of the benefits offered by PMO are mentioned below.

- PMO brings accuracy and clarity which saves costs for the organizations.
- Accuracy offered by PMO brings visibility into the Project.
- PMO helps staff collaborate and communicate which documents the standards for future use.
- PMO helps improve Decision making due to standards.
- PMO enables project manager to effectively control the project through processes, procedures and communication.
- PMO enables project team to better inform the management due to best practices in place.

HOUSING INDUSTRY IN PAKISTAN

Pakistan is fast becoming urbanized. Planning Commission of Pakistan studies show that by year 2030, about 50% of the Pakistani population would be living in urban areas.

This demographical change state the need for utmost attention on housing sector. It is very clear that housing options for the urban and even rural society are very limited. Slums, peri-urban hutments, squatter settlements and an unending sprawl are some visible indicators that can be easily seen across the country.

The changing sociological dynamics in the cities directly cause an increase in housing demand. The need for housing in urban locations is intensifying. An important factor to the swelling housing demand is the expanding housing backlog.

A backlog of 9 million lodging units exists according to current studies. Around 300,000 lodging units are built every year with a dominating center in urban communities. Subsequently, the build-up keeps on expanding. Katchi abadis and shanty towns then serve the un-served.

The housing interest is likewise influenced by movement to urban communities for better medicinal services, employment and entrepreneurial alternatives and for security reasons. The social disengagements created because of geopolitical components and terrorism in Pakistan amid the previous three decades additionally added to lodging needs in urban zones.

Housing contemplates in view of the 1998 statistics uncover that a noticeable interest for lodging repairs, substitution and redevelopment stays in urban zones of Pakistan.

Previously, land was viewed as a social asset. Presently it is exchanged as saleable merchandise. Urban area has turned into an item pulling in interests in exponential extents. Hence, its costs ascend to such high levels that its accessibility has become difficult particularly for low income population.

INTRODUCTION TO VEHARI

Vehari (Urdu: وہاڑی) is a city around ۱۰۰ km from the ancient city of Multan. It is situated at a height of ۱۳۰ meters. Vehari is 956 kilometers from Karachi, 300 kilometers from Lahore, 218 kilometers from Faisalabad, 119 kilometers from Bahawalpur, 112 kilometers from Pakpattan, and around 37 kilometers north of the River Sutlej – the southernmost of the five Rivers of the Punjab Province. Islam Headworks is situated on this River.

Vehari is known for cotton. The summer in Vehari is extremely hot. However the climate turns out to be significantly more charming in the middle of October and February. Periodically, light precipitation leaves the area for the most part bone-dry and dusty. Vehari has many cotton handling production lines and cottonseed oil fabricating plants, and sugarcane cultivating and preparing is additionally regular. Fruits incorporate mangoes in the mid year and guava and different citrus natural products in the winter.

According to national statistics of 1998, Punjabi is the fundamental dialect of Vehari talked by 94% population. Urdu, the national dialect, is talked generally while English talked by the elite. Other dialect talked by few afghan displaced people is Pashto.

Vehari Region is the consequence of development of the Pakpattan Canal from Sulemanki Head Works at the Sutlej and the establishment of Nili Bar settlement venture in 1925. The population in old times was confined to the banks of the River Sutlej where occasional immersion allowed some development. After the freedom of Pakistan in 1947, the minority Hindus and Sikhs relocated to India while the Muslim exiles from India settled in the Vehari Region.

Vehari has two operational university campuses and two postgraduate colleges both for men and women. Virtual University Campus is also working at Vehari since 2001. Vehari also contains many higher secondary schools and private colleges. Education University is a Punjab Govt. funded and operated campus with more than four faculties and many departments. COMSATS Vehari Campus is federal Govt. funded public sector University. Pakistan's leading agriculture university, UAF (University of Agriculture Faisalabad) has also recently opened its sub campus in Vehari.

Vehari is located on the southern alternate route of both Road and Railway between Lahore and Multan. Both of these routes run almost parallel to each other. The Vehari route goes to Lahore through the famous religiously renowned city of Pakpattan, where the Sufi saint Fariduddin Ganjshakar is buried. He was commonly known as "Baba Farid".

District Vehari is located in central Punjab and has three tehsils; Vehari, Burewala and Mailsi. Vehari City is headquarters of District Vehari. District Vehari has a Population of 4 Million

and Vehari City has a population of 500,000. People from surrounding towns, villages and districts frequently visit Vehari City due to comparatively better health facilities, Education, Business, Shopping, Entertainment and Govt. offices related visits.

Farming is major source of income and people have increased landholding as compared to other districts of Punjab. There are more than 150 cotton factories in the district. Vehari City is being developed rapidly because other developed cities such as Multan and Lahore are far away and residents of nearby districts such as Khanewal, Bahawalnagar, Lodhran and Bahawalpur find it cheaper and convenient to visit Vehari City for their needs. Vehari City is much developed city if compared to other cities situated nearby due to the below mentioned facilities/organizations.

Banks

Allied Bank (2 Branches)

UBL (2 Branches)

HBL (3 Branches)

Bank Al-Habib

J S Bank

National Bank (2 Branches)

Soneri Bank

Meezan

KASB

Bank Al-Falah

Al-Baraka

Khushali Bank

Askari Bank

Bank of Punjab,

MCB (3 Branches)

Faysal

ZTBL

NIFT

Education

COMSAT University, University of Agriculture Faisalabad campus, University of Education campus, Punjab College, Central College, Tevta, Educators, DPS, Citi School, Spirit School, Roza-tul-Atfal School, Dar-e-Arqam School, Bilal School, Khan School.

Recreation

Vehari Wildlife Park, Jahangir Cinema, Nadir Cinema, Vehari Club, Khursheed Stadium, Quaid-e-Azam Park, Public Library, FM Radio station, Chandni Park

Courier Services

TCS, OCS, NTN, DCS, Express, SMS, Leopard, TNT

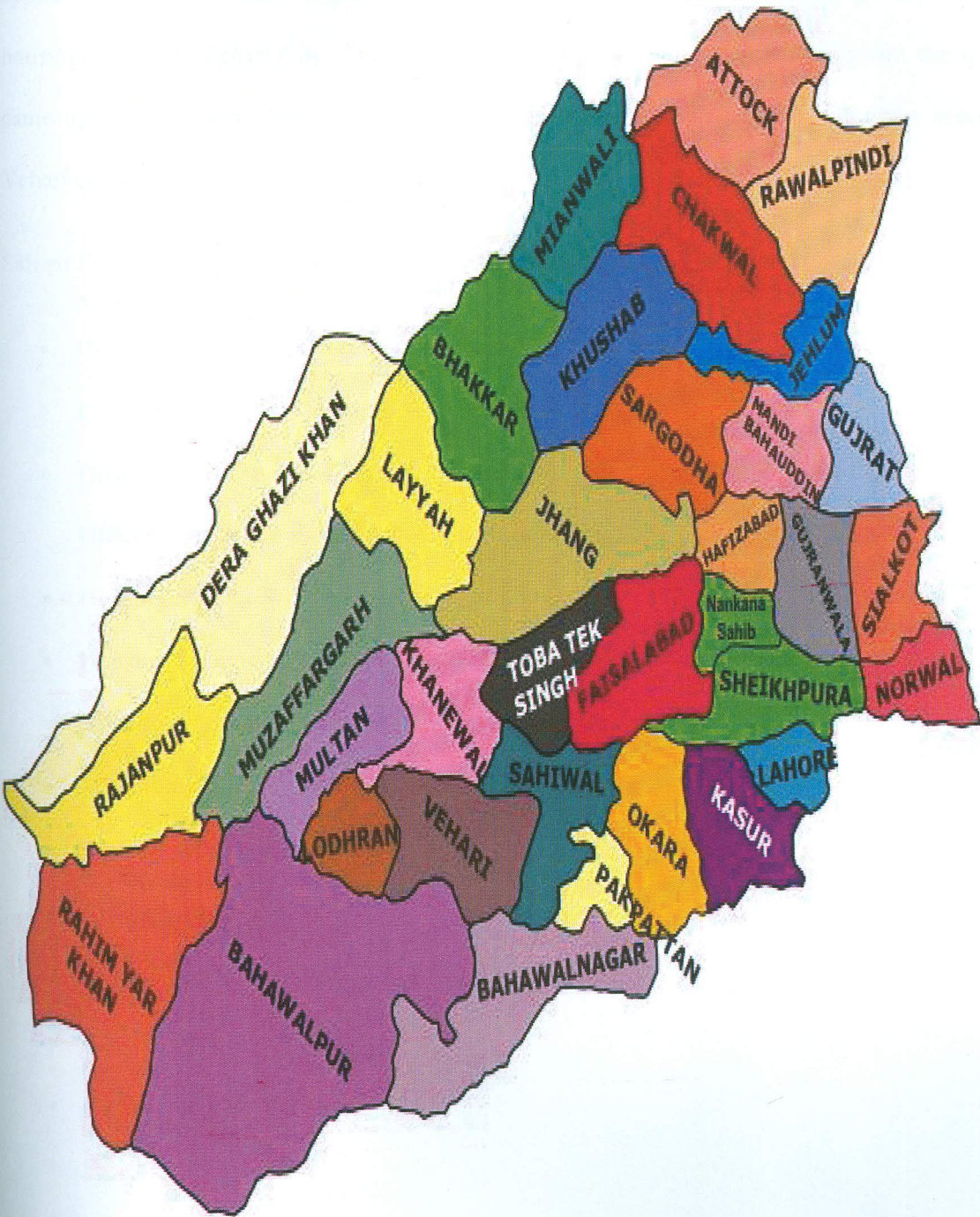
Telecommunication

Large PTCL Exchange, Mobilink, Ufone, Warid, Zong, Telenor

Miscellaneous

Vehari Chamber of Commerce & Industry www.vcci.org.pk, Vehari Industrial Estate (under construction), DHQ Hospital, 15, 1122, Various Private Hospitals, 2 Post offices, Passport office, Nadra Centre, 6 CNG Stations, PSO, Shell, Caltex, MEPCO office, SNGPL office.

Location Map of District Vehari in Punjab Province



INTRODUCTION TO BABA FARID TOWN

Pakistan is having acute shortage of housing units particularly in urban areas. The same applies in District Vehari. Rapid urbanization trend has created a demand for affordable housing society in Vehari City. Tahir & Co has decided to avail this opportunity and the CEO came up with an idea of launching an affordable housing society in the suburban area of Vehari city with the name of Baba Farid Town.

Salient Features of Baba Farid Town are mentioned below.

- Only 2 Kilometers from centre of Vehari City
- Located next to New Sharqi Colony Vehari
- District Head Quarters Hospital, General Bus Stand, Girls Postgraduate College, Govt. Officers Residence and Banks within 1 kilometer.
- Housing Scheme will be on 14 acres of Land.
- Housing Scheme will have four sided Boundary Wall and 1 Entrance.
- Sewerage system with disposal into existing drain nearby.
- Minimum 30 feet wide internal Roads.
- Security Guards at entrance.
- Children Park.
- Mosque.
- Street Lights.
- Commercial Market Area.

Plots Allocation

Plot Size	Number of Plots
3 Marla	13 Plots
4 Marla	56 Plots
5 Marla	92 Plots
6 Marla	2 Plots
7 Marla	40 Plots
8 Marla	36 Plots
9 Marla	2 Plots
10 Marla	40 Plots
12 Marla	4 Plots
16 Marla	2 Plots
18 Marla	2 Plots
Shops 1 Marla	14 Plots

Project Charter

Project Charter				
Authorizations	Name	Function	Date	Signature
Author	Sagheer Ahmad	Project Manager	07-01-2016	-----
Approved	Tahir Mahmood Khan	CEO	09-01-2016	-----
Project Background	M/S Tahir & Co is in Construction Industry Business since 1985. Govt. Civil Construction Contracts in District Vehari are facing tough competition. Current Market trends offer opportunity and Profit Margin to establish and Develop Housing Society in Vehari City for low income and middle income residents of District Vehari and surrounding Districts.			
Expected Business Benefits	Cheap available land in suburban area of Vehari offer good opportunity to establish and develop Housing Society close to the Vehari City and offering smaller area plots which are quickly sold at a higher price as compared to the large size plots. Land price is paid to the land owners over 3 years of time whereas plots sold on installments yield 100 % sales and revenue is collected within 3 years time thus Developer’s Working Capital Requirements are fulfilled by the plots sold on installments.			
Proposed Start Date	18-01-2016	Proposed End Date	26-04-2017	
Project Objectives	Acquiring Approval from TMA Vehari to establish Baba Farid Town over 14 acres of Land 2 KM from centre of Vehari city near New Sharqi Colony comprising of 267 various size residential and commercial plots.			
Key outputs/Deliverables	267 various size residential and commercial plots. Baba Farid Town comprising of minimum 30 feet wide internal roads, one mosque, one park, sewerage with disposal, street lights, Four sided Boundary wall with one main entrance, Provision of Electricity by MEPCO			

Project Scope	Baba Farid Town develops with all the amenities and facilities as per plan
Success Criteria	Baba Farid Town's on time and within budget completion
Methodology	Establishment and Development of Baba Farid Town as per laid down procedure by TMA Vehari.
Executing Agency	Tahir & Co
Project Sponsor	Tahir & Co
High Level Estimate of Project Cost	Rs. 49.509 Million
Issues/Risks	1. TMA may delay NOC 2. Land Owner may violate the contract 3. Sponsor may not be able to generate Plot sales on advance booking causing liquidity issues 4. MEPCO may delay the electrification of Baba Farid Town due to electricity shortfall in the country 5. Adjacent society/land owners may bring stay orders
Assumptions	TMA NOC requirements are met. MEPCO performs electrification as per tentative plan. Landowner remains happy with the conduct of Tahir & Co. No litigation and disturbance is caused by neighbors of Baba Farid Town.
Constraints and Dependencies	Project Success lies on the timely issuance of TMA NOC, timely electrification by MEPCO, smooth supply of construction material and

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

Change Management Plan

The Change Management process makes a successful strategy for following the coordination, accommodation, assessment, and audit, regard and order for arrival of all progressions to the project's baselines. If there is any necessary change required after identification, following is the procedures for the change management.

Steps for Change Request

In the start of the project a committee or board is formed which is known as change control board. This board will include CEO, General Manager and Project Manager.

1. At first, a change request is moved by any stakeholder or from any team member of the project.
2. This change request will be analyzed by the project manager initially.
3. Project manager will log the change request in the change log register.
4. Project manager will now submit the change request in change control board.
5. Change control board will analyze the change request and observe the impact of the change request on project.
6. After complete analysis, change control board will decide whether to accept or reject the change request.

7. Change request if approved will be communicated to the other team members and the stakeholders.
8. Plan will be modified according to change request and once again it is approved by the management.

All the changes are logged and communicated to the team.

CHANGE REQUEST FORM TEMPLATE

Submitter - General Information				
Change Request #				
Submitter Name				
Brief Description of Request				
Date Submitted				
Date Required				
Priority	☐ Low	☐ Medium	☐ High	☐ Mandatory
Reason for Change				
Other Artefacts Impacted				
Assumptions and Notes				
Attachments	or ☐ Yes	☐ No		
References	Link:			

Initial Analysis		
Hour Impact		
Duration Impact		
Schedule Impact		
Comments		
Recommendations		

Change Control Board – Decision				
Decision	☐ Approved	☐ Approved w/Conditions	☐ Rejected	☐ More Info
Decision Date				
Decision Explanation				
Conditions				

Change Management Log Register

Change Management Log Register							
Baba Farid Town Project							
No	Issue Date	Requestor	Title of request	Impact	Responsible Person	Date	Status

CREATING WBS IN PRIMAVERA P6

When starting a project, First step is to break down the project into major deliverables such as major product or service. This is called Work Breakdown Structure. After creating WBS, activities are created which are required for achieving said deliverables.

TOP DOWN APPROACH IN PRIMAVERA P6

Primavera P6 works on the concept of Top down approach. Primavera P6 remains focused on the deliverables and allow you to start from WBS and go down to the activities.

ENTERPRISE PROJECT STRUCTURE AND ORGANIZATIONAL BREAKDOWN STRUCTURE

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

The Organizational Breakdown Structure defines how people fit in the org hierarchy and chain of command. OBS also sets people and their right of access in various projects.

ROLES AND RESPONSIBILITIES IN PRIMAVERA P6

Primavera P6 uses Activity codes to assign responsibility to each activity for measuring the progress and performance. It allows the Primavera P6 user to break down activity progress by individual performance. It is advisable to use project specific activity codes.

WORK BREAKDOWN STRUCTURE OF PRIMAVERA P6

SR-07 Activity Breakdown By WBS

WBS	Activity ID	Activity Name	Activity Type	Activity Status
TAHIR & CO				
BFT				
BFT.1				
GENERAL CONTRACTOR				
BABA FARID TOWN				
Planning				
	A1000	Prepare Society Plan	Task Dependent	Not Started
	A1010	Submission to TMA	Task Dependent	Not Started
	A1020	Approval from TMA	Task Dependent	Not Started
	A1030	Apply to Mapco	Task Dependent	Not Started
	A1040	Survey by Mapco	Task Dependent	Not Started
	A1050	Mapco Connection	Task Dependent	Not Started
BFT.2				
Site Preparation				
	A1060	Site Clearing	Task Dependent	Not Started
	A1070	Site Office	Task Dependent	Not Started
	A1080	Store	Task Dependent	Not Started
	A1090	Waste Pump Installation	Task Dependent	Not Started
	A1100	Electric Connection	Task Dependent	Not Started
BFT.3				
Severage				
	A1110	Excavation	Task Dependent	Not Started
	A1120	Procurement of Pipe	Task Dependent	Not Started
	A1130	Bed Preparation	Task Dependent	Not Started
	A1140	Laying Crush	Task Dependent	Not Started
	A1150	Laying Pipe	Task Dependent	Not Started
	A1160	Main Hole Bed Preparation	Task Dependent	Not Started
	A1170	PCC on Bed	Task Dependent	Not Started
	A1180	Base Concrete	Task Dependent	Not Started
	A1190	Brick Wall	Task Dependent	Not Started
	A1200	Plaster	Task Dependent	Not Started
	A1210	Bituman Coating	Task Dependent	Not Started
	A1220	Jointing	Task Dependent	Not Started
	A1230	Testing	Task Dependent	Not Started
	A1240	Backfilling	Task Dependent	Not Started
	A1250	Disposal	Task Dependent	Not Started
BFT.4				
Boundary				
	A1260	Excavation	Task Dependent	Not Started
	A1280	Foundation	Task Dependent	Not Started
	A1270	Wall	Task Dependent	Not Started
	A1290	Plaster	Task Dependent	Not Started

SR-07 Activity Breakdown By WBS

WBS

Activity ID	Activity Name	Activity Type	Activity Status
BFT.5	Entrance		
A1260	Excavation	Task Dependent	Not Started
A1300	Foundation	Task Dependent	Not Started
A1310	SuperStructure	Task Dependent	Not Started
A1320	Plaster	Task Dependent	Not Started
A1330	Marble Work	Task Dependent	Not Started
A1340	Monogram	Task Dependent	Not Started
BFT.6	Roads		
A1350	RGC	Task Dependent	Not Started
A1360	SUBGRADE PREPARATION	Task Dependent	Not Started
A1370	Sub Base	Task Dependent	Not Started
A1380	Water Bound	Task Dependent	Not Started
A1390	Asphalt	Task Dependent	Not Started
A1400	Foot Path	Task Dependent	Not Started
BFT.7	Mosque		
A1410	EXCAVATION	Task Dependent	Not Started
A1420	FOUNDATION	Task Dependent	Not Started
A1430	SUPERSTRUCTURE	Task Dependent	Not Started
A1440	CEILING	Task Dependent	Not Started
A1450	MINIAR	Task Dependent	Not Started
A1460	SANITARY WORK	Task Dependent	Not Started
A1470	ELECTRICITY WORK	Task Dependent	Not Started
A1480	PLASTER	Task Dependent	Not Started
A1490	FLOORING	Task Dependent	Not Started
A1500	PAINT	Task Dependent	Not Started
A1510	FITTING AND FIXTURE	Task Dependent	Not Started
A1520	DOORS	Task Dependent	Not Started
BFT.8	Park		
A1530	BOUNDARY	Task Dependent	Not Started
A1540	TRACKS	Task Dependent	Not Started
A1550	PLANTATION	Task Dependent	Not Started
A1560	PLAYING FACILITIES	Task Dependent	Not Started
BFT.9	Street Lights		
A1570	TRENCH EXCAVATION	Task Dependent	Not Started
A1580	CONDUCTING	Task Dependent	Not Started
A1590	Excavation of pole Foundation	Task Dependent	Not Started

SR-07 Activity Breakdown By WBS

WBS			
Activity ID	Activity Name	Activity Type	Activity Status
A1000	Casting of Pole Foundation	Task Dependent	Not Started
A1010	Procurement of Poles	Task Dependent	Not Started
A1020	Procurement of LED	Task Dependent	Not Started
A1030	Placing of Poles	Task Dependent	Not Started
A1040	Cable Pulling	Task Dependent	Not Started
A1050	Jointing	Task Dependent	Not Started
A1070	Intalling Lights	Task Dependent	Not Started
A1080	Testing & Commissioning	Task Dependent	Not Started

ACTIVITIES AND TYPES OF ACTIVITIES

An activity can be Finish Milestone, WBS Summary, Level of Effort, Resource Dependent, Start Milestone or Task Dependent.

SCHEDULING

Each project has a start date and an end date. Each project activity has a specific performance time. There are various scheduling tools such as Schedule Network Analysis, Critical Path Analysis, Schedule compression, Fast tracking and Crashing.

COMPARISON BETWEEN PRIMAVERA P6 AND MS-PROJECT

- Primavera P6 is an enterprise level software built on Enterprise level vision in mind whereas MS-Project evolved from desktop application and gained enhanced capabilities which are not a match with highly sophisticated Primavera P6's capabilities.
- MS-Project can allow you to create 11 baselines whereas Primavera P6 allows you to create unlimited number of baselines.
- Primavera P6's spotlight feature highlights any due status in the next period whereas this function requires manual configuration of filters in MS-Project.
- MS-Project lacks capability to track project issues or risks which is not the case with Primavera P6.
- Primavera P6 has the capability to convert information into HTML direct from software but MS-Project does not offer this function.

- Primavera P6 has the capability to take into account planned, actual and remaining project expenses (traveling, TA/DA) at activity level but MS-Project cannot do this.
- Primavera P6 has steps capability which MS-Project lacks. Steps are further division of activities and each step has a weighting to be marked off when completed.
- Primavera P6 allows you to open multiple projects for editing. Thus you can establish relationships between activities in different project whereas MS-Project achieves this through special feature which is called Links between projects.

WORKS CITED

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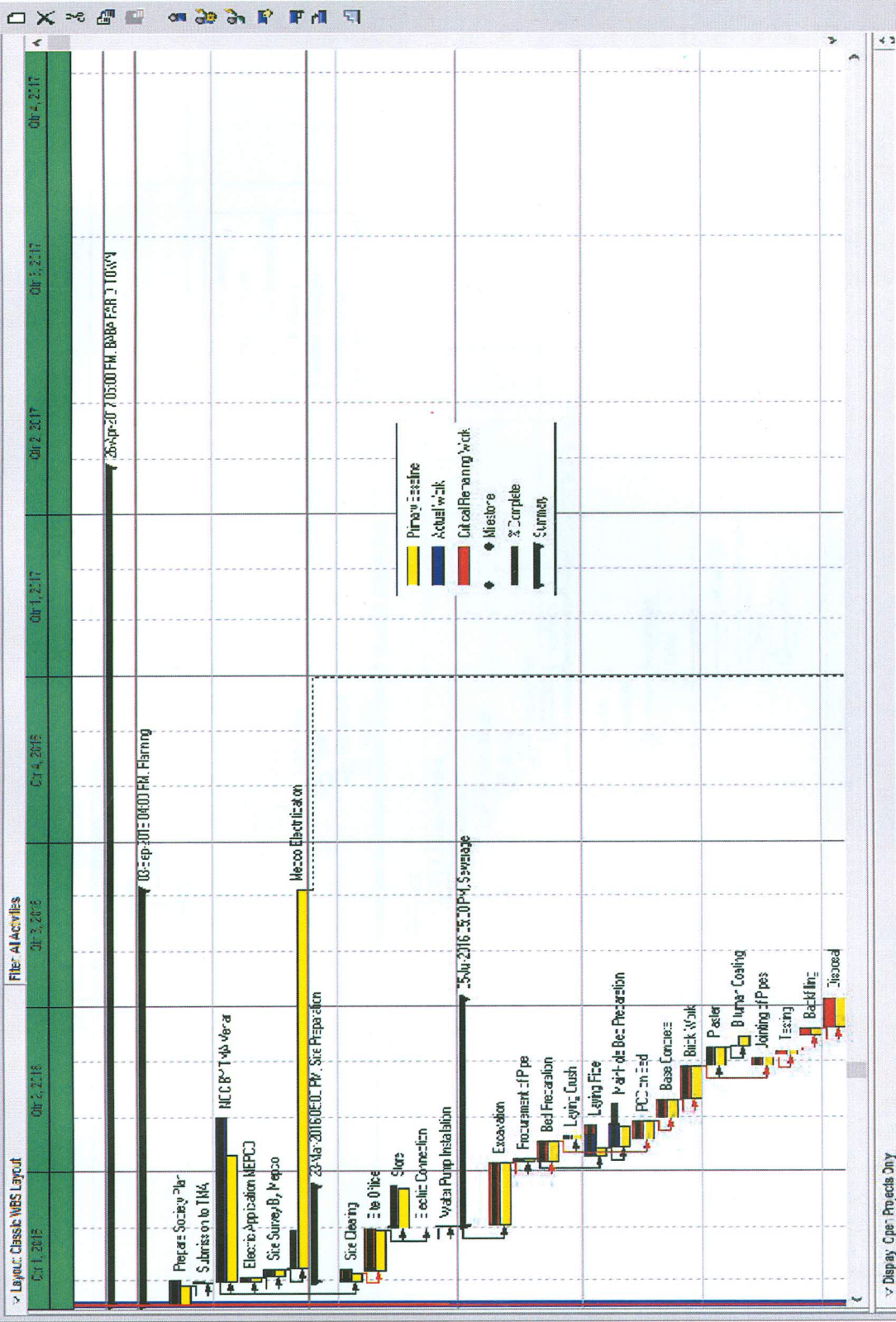
ANNEXURE

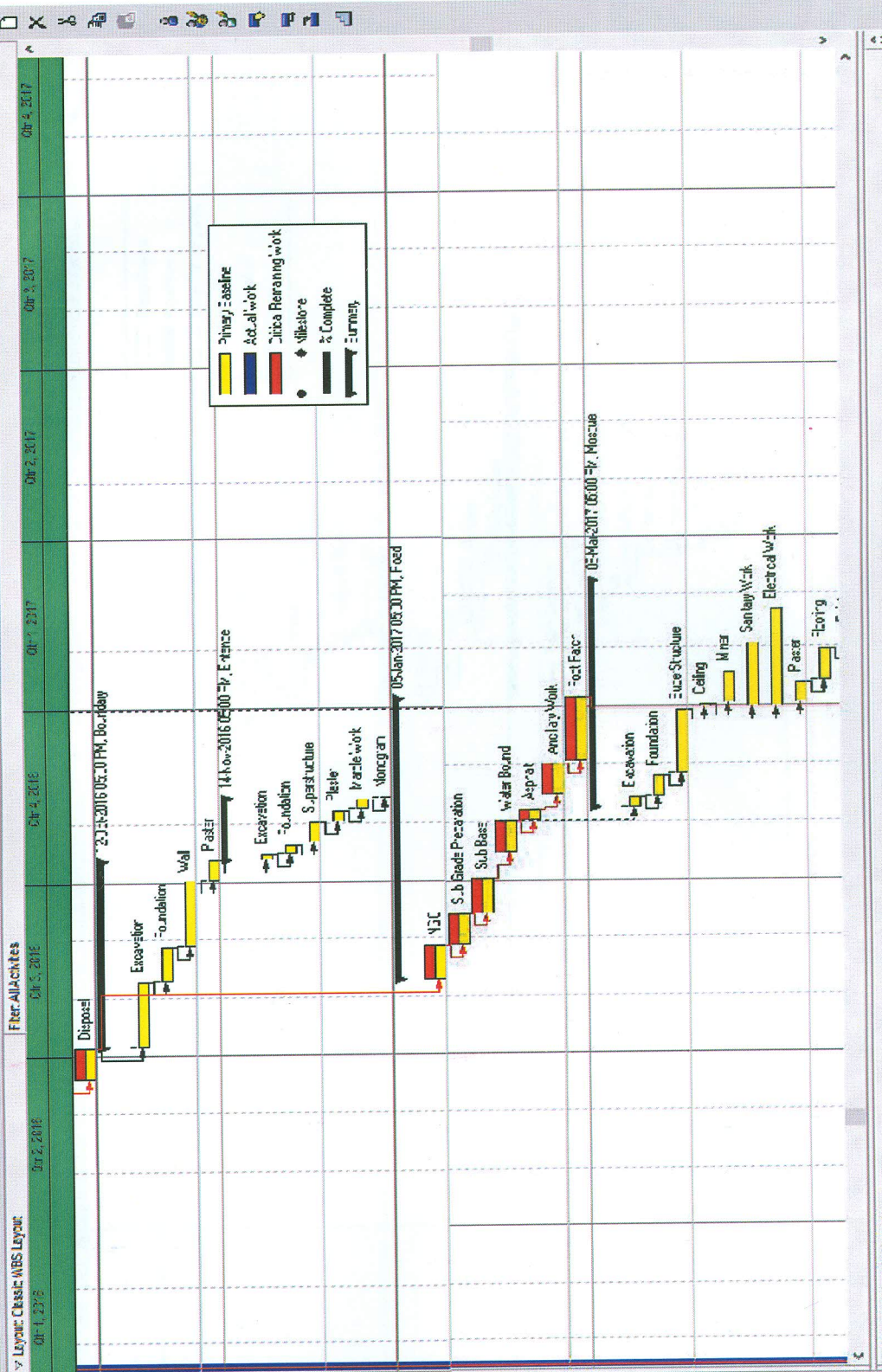
Activity ID	Earned Value Cost	Planned Value Cost	Budgeted Total Cost	Activity Name	Original Duration	Remaining Duration	Schedule % Complete	Start
BABA FARID TOWN	Rs0	Rs0	Rs0		0	0	0%	
BABA FARID TOWN	Rs0.345.000	Rs10.023.000	Rs49.509.200		399	263	20,24%	18-Jan-20
Planning	Rs2.180.000	Rs3.960.000	Rs5.760.000		197	180	68,75%	18-Jan-20
A1000	Rs200.000	Rs200.000	Rs200.000	Prepare Society Plan	10	0	100%	18-Jan-20
A1010	Rs5.000	Rs5.000	Rs5.000	Submission to TMA	1	0	100%	30-Jan-20
A1020	Rs1.500.000	Rs1.500.000	Rs1.500.000	NOC BY TMA Vehari	60	0	100%	31-Jan-20
A1030	Rs50.000	Rs50.000	Rs50.000	Electric Application MEPCO	3	0	100%	31-Jan-20
A1040	Rs5.000	Rs5.000	Rs5.000	Site Survey By Mepco	3	0	100%	03-Feb-20
A1050	Rs400.000	Rs2.200.000	Rs4.000.000	Mepco Electrification	180	180	55%	07-Feb-20
Site Preparation	Rs1.090.000	Rs1.090.000	Rs1.090.000		45	0	100%	31-Jan-20
A1060	Rs25.000	Rs25.000	Rs25.000	Site Clearing	5	0	100%	31-Jan-20
A1070	Rs520.000	Rs520.000	Rs520.000	Site Office	20	0	100%	06-Feb-20
A1080	Rs520.000	Rs520.000	Rs520.000	Store	20	0	100%	29-Feb-20
A1090	Rs10.000	Rs10.000	Rs10.000	Electric Connection	1	0	100%	29-Feb-20
A1100	Rs15.000	Rs15.000	Rs15.000	Water Pump Installation	1	0	100%	01-Mar-20
Sewerage	Rs5.085.000	Rs4.973.000	Rs5.690.000		108	20	87,4%	02-Mar-20
A1120	Rs150.000	Rs150.000	Rs150.000	Excavation	30	0	100%	02-Mar-20
A1130	Rs2.000.000	Rs2.000.000	Rs2.000.000	Procurement of Pipe	2	0	100%	06-Apr-20
A1140	Rs50.000	Rs50.000	Rs50.000	Bed Preparation	10	0	100%	06-Apr-20
A1150	Rs15.000	Rs15.000	Rs15.000	Laying Crush	3	0	100%	18-Apr-20
A1160	Rs25.000	Rs25.000	Rs25.000	Laying Pipe	5	0	100%	09-Apr-20
A1170	Rs50.000	Rs50.000	Rs50.000	Main Hole Bed Preparation	10	0	100%	14-Apr-20
A1180	Rs460.000	Rs460.000	Rs460.000	PCC on Bed	10	0	100%	18-Apr-20
A1190	Rs1.064.000	Rs1.064.000	Rs1.064.000	Base Concrete	10	0	100%	30-Apr-20
A1200	Rs1.096.000	Rs1.096.000	Rs1.096.000	Brick Work	15	0	100%	11-May-20
A1210	Rs160.000	Rs48.000	Rs160.000	Plaster	10	7	30%	29-May-20
A1220	Rs0	Rs0	Rs225.000	Bituman Coating	5	5	0%	09-Jun-20
A1230	Rs25.000	Rs15.000	Rs25.000	Jointing of Pipes	5	2	60%	29-May-20
A1240	Rs0	Rs0	Rs15.000	Testing	3	3	0%	04-Jun-20
A1250	Rs0	Rs0	Rs15.000	Backfilling	3	3	0%	15-Jun-20
A1260	Rs0	Rs0	Rs340.000	Disposal	15	15	0%	19-Jun-20
Boundary	Rs0	Rs0	Rs6.828.000		85	85	0%	06-Jul-20
A1270	Rs0	Rs0	Rs150.000	Excavation	30	30	0%	06-Jul-20
A1280	Rs0	Rs0	Rs1.490.000	Foundation	15	15	0%	10-Aug-20
A1290	Rs0	Rs0	Rs4.492.000	Wall	30	30	0%	28-Aug-20
A1300	Rs0	Rs0	Rs494.000	Plaster	10	10	0%	02-Oct-20
Entance	Rs0	Rs0	Rs618.000		28	28	0%	13-Oct-20
A1310	Rs0	Rs0	Rs10.000	Excavation	2	2	0%	13-Oct-20
A1320	Rs0	Rs0	Rs130.000	Foundation	5	5	0%	16-Oct-20
A1330	Rs0	Rs0	Rs364.000	Superstructure	10	10	0%	22-Oct-20
A1340	Rs0	Rs0	Rs52.000	Plaster	5	5	0%	02-Nov-20
A1350	Rs0	Rs0	Rs32.000	Marble Work	5	5	0%	08-Nov-20
A1360	Rs0	Rs0	Rs30.000	Monogram	1	1	0%	14-Nov-20
Road	Rs0	Rs0	Rs21.400.000		128	128	0%	10-Aug-20
A1370	Rs0	Rs0	Rs75.000	NGC	15	15	0%	10-Aug-20
A1380	Rs0	Rs0	Rs75.000	Sub Grade Preparation	15	15	0%	28-Aug-20
A1390	Rs0	Rs0	Rs75.000	Sub Base	15	15	0%	14-Sep-20
A1400	Rs0	Rs0	Rs75.000	Water Bound	15	15	0%	16-Oct-20
A1410	Rs0	Rs0	Rs20.025.000	Asphalt	5	5	0%	02-Nov-20
A1420	Rs0	Rs0	Rs275.000	Ancillary Work	15	15	0%	15-Nov-20

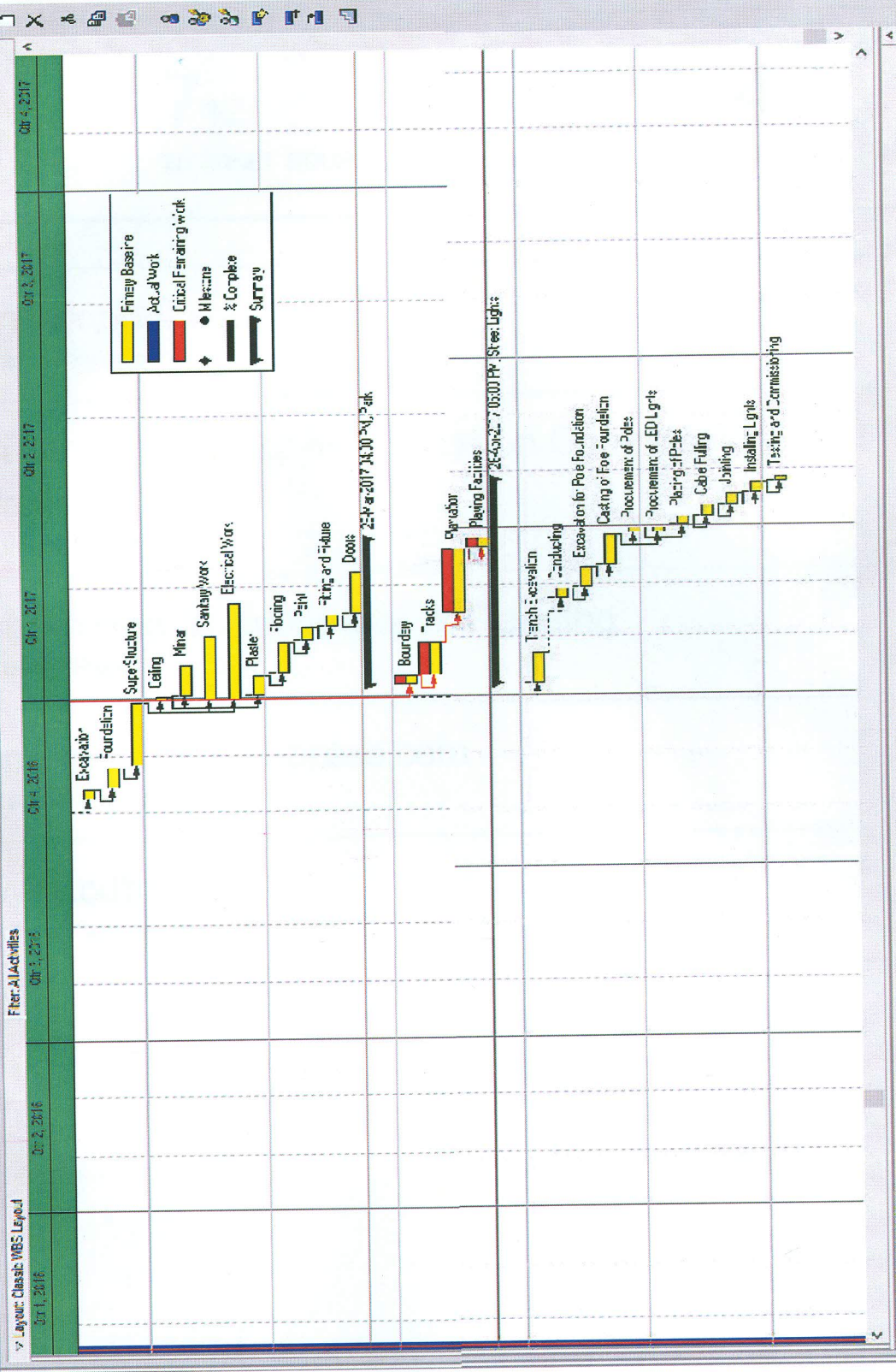
	Finish	Physical % Complete	Total Float	Schedule Performance Index	Schedule Variance	Cost Performance Index	Cost Variance	Actual Expense Cost
			0	0,00	Rs0	0,00	Rs0	Rs0
116	26-Apr-2017		0	0,83	(Rs1.578.000)	2,07	Rs4.307.000	Rs0
118	27-Dec-2016		0	0,55	(Rs1.800.000)	0,00	Rs2.150.00	Rs0
116	31-Jan-2016	100%		1,00	Rs0	0,00	Rs200.000	Rs0
116	31-Jan-2016	100%		1,00	Rs0	0,00	Rs5.000	Rs0
116	30-Apr-2016	100%		1,00	Rs0	0,00	Rs1.500.00	Rs0
116	02-Feb-2016	100%		1,00	Rs0	0,00	Rs50.000	Rs0
116	06-Feb-2016	100%		1,00	Rs0	0,00	Rs5.000	Rs0
116	27-Dec-2016	10%	0	0,18	(Rs1.800.000)	0,00	Rs400.000	Rs0
118	22-Mar-2016			1,00	Rs0	1,02	Rs25.000	Rs0
116	04-Feb-2016	100%		1,00	Rs0	1,00	Rs0	Rs0
116	28-Feb-2016	100%		1,00	Rs0	1,00	Rs0	Rs0
116	22-Mar-2016	100%		1,00	Rs0	1,00	Rs0	Rs0
116	29-Feb-2016	100%		1,00	Rs0	0,00	Rs10.000	Rs0
116	01-Mar-2016	100%		1,00	Rs0	0,00	Rs15.000	Rs0
118	05-Jul-2016		228	1,02	Rs122.000	1,71	Rs2.122.00	Rs0
116	05-Apr-2016	100%		1,00	Rs0	1,00	Rs0	Rs0
116	07-Apr-2016	100%		1,00	Rs0	0,00	Rs2.000.00	Rs0
116	17-Apr-2016	100%		1,00	Rs0	1,00	Rs0	Rs0
116	20-Apr-2016	100%		1,00	Rs0	1,00	Rs0	Rs0
116	13-Apr-2016	100%		1,00	Rs0	1,00	Rs0	Rs0
116	25-Apr-2016	100%		1,00	Rs0	1,00	Rs0	Rs0
116	28-Apr-2016	100%		1,00	Rs0	1,00	Rs0	Rs0
116	10-May-2016	100%		1,00	Rs0	1,00	Rs0	Rs0
116	28-May-2016	100%		1,00	Rs0	1,00	Rs0	Rs0
116	08-Jun-2016	100%	239	3,33	Rs112.000	3,33	Rs112.000	Rs0
116	14-Jun-2016	0%	239	0,00	Rs0	0,00	Rs0	Rs0
116	02-Jun-2016	100%	63	1,67	Rs10.000	1,67	Rs10.000	Rs0
116	06-Jun-2016	0%	63	0,00	Rs0	0,00	Rs0	Rs0
116	18-Jun-2016	0%	63	0,00	Rs0	0,00	Rs0	Rs0
116	05-Jul-2016	0%	63	0,00	Rs0	0,00	Rs0	Rs0
118	12-Oct-2016		115	0,00	Rs0	0,00	Rs0	Rs0
116	09-Aug-2016	0%	115	0,00	Rs0	0,00	Rs0	Rs0
116	27-Aug-2016	0%	115	0,00	Rs0	0,00	Rs0	Rs0
116	01-Oct-2016	0%	115	0,00	Rs0	0,00	Rs0	Rs0
116	12-Oct-2016	0%	115	0,00	Rs0	0,00	Rs0	Rs0
118	14-Nov-2016		115	0,00	Rs0	0,00	Rs0	Rs0
116	15-Oct-2016	0%	115	0,00	Rs0	0,00	Rs0	Rs0
116	20-Oct-2016	0%	115	0,00	Rs0	0,00	Rs0	Rs0
116	01-Nov-2016	0%	115	0,00	Rs0	0,00	Rs0	Rs0
116	07-Nov-2016	0%	115	0,00	Rs0	0,00	Rs0	Rs0
116	13-Nov-2016	0%	115	0,00	Rs0	0,00	Rs0	Rs0
116	14-Nov-2016	0%	115	0,00	Rs0	0,00	Rs0	Rs0
118	05-Jan-2017		63	0,00	Rs0	0,00	Rs0	Rs0
116	27-Aug-2016	0%	63	0,00	Rs0	0,00	Rs0	Rs0
116	13-Sep-2016	0%	63	0,00	Rs0	0,00	Rs0	Rs0
116	01-Oct-2016	0%	63	0,00	Rs0	0,00	Rs0	Rs0
116	01-Nov-2016	0%	63	0,00	Rs0	0,00	Rs0	Rs0
116	07-Nov-2016	0%	63	0,00	Rs0	0,00	Rs0	Rs0
116	01-Dec-2016	0%	63	0,00	Rs0	0,00	Rs0	Rs0

Activity ID	Earned Value Cost	Planned Value Cost	Budgeted Total Cost	Activity Name	Original Duration	Remaining Duration	Schedule % Complete	Start
■ A1430	Rs0	Rs0	Rs830.000	Foot Patch	30	30	0%	03-Dec-21
■ Mosque	Rs0	Rs0	Rs4,244.800		104	104	0%	08-Nov-21
■ A1440	Rs0	Rs0	Rs25.000	Excavation	5	5	0%	08-Nov-21
■ A1450	Rs0	Rs0	Rs260.000	Foundation	10	10	0%	14-Nov-21
■ A1460	Rs0	Rs0	Rs992.000	SuperStructure	30	30	0%	26-Nov-21
■ A1470	Rs0	Rs0	Rs514.800	Ceiling	2	2	0%	31-Dec-21
■ A1480	Rs0	Rs0	Rs496.000	Minar	15	15	0%	02-Jan-21
■ A1490	Rs0	Rs0	Rs150.000	Sanitary Work	30	30	0%	31-Dec-21
■ A1500	Rs0	Rs0	Rs372.000	Electrical Work	45	45	0%	31-Dec-21
■ A1510	Rs0	Rs0	Rs164.000	Plaster	10	10	0%	02-Jan-21
■ A1520	Rs0	Rs0	Rs246.000	Flooring	15	15	0%	14-Jan-21
■ A1530	Rs0	Rs0	Rs200.000	Paint	7	7	0%	31-Jan-21
■ A1540	Rs0	Rs0	Rs525.000	Fitting and Fixture	5	5	0%	08-Feb-21
■ A1550	Rs0	Rs0	Rs400.000	Doors	20	20	0%	14-Feb-21
■ Park	Rs0	Rs0	Rs1,397.000		68	68	0%	07-Jan-21
■ A1560	Rs0	Rs0	Rs432.000	Boundary	5	5	0%	07-Jan-21
■ A1570	Rs0	Rs0	Rs590.000	Tracks	15	15	0%	12-Jan-21
■ A1580	Rs0	Rs0	Rs150.000	Plantation	30	30	0%	14-Feb-21
■ A1590	Rs0	Rs0	Rs225.000	Playing Facilities	5	5	0%	21-Mar-21
■ Street Lights	Rs0	Rs0	Rs2,553.400		95	95	0%	07-Jan-21
■ A1600	Rs0	Rs0	Rs75.000	Trench Excavation	15	15	0%	07-Jan-21
■ A1610	Rs0	Rs0	Rs8.000	Conducting	5	5	0%	21-Feb-21
■ A1620	Rs0	Rs0	Rs0	Excavation for Pole Founda	10	10	0%	27-Feb-21
■ A1630	Rs0	Rs0	Rs890.000	Casting of Pole Foundation	15	15	0%	11-Mar-21
■ A1640	Rs0	Rs0	Rs1,000.000	Procurement of Poles	3	3	0%	28-Mar-21
■ A1650	Rs0	Rs0	Rs500.000	Procurement of LED Lights	3	3	0%	28-Mar-21
■ A1660	Rs0	Rs0	Rs25.000	Placing of Poles	5	5	0%	01-Apr-21
■ A1670	Rs0	Rs0	Rs33.000	Cable Pulling	5	5	0%	06-Apr-21
■ A1680	Rs0	Rs0	Rs8.000	Joining	5	5	0%	12-Apr-21
■ A1690	Rs0	Rs0	Rs8.000	Installing Lights	5	5	0%	18-Apr-21
■ A1700	Rs0	Rs0	Rs6.400	Testing and Commissioning	3	3	0%	24-Apr-21

	Finish	Physical % Complete	Total Float	Schedule Performance Index	Schedule Variance	Cost Performance Index	Cost Variance	Actual Expense Cost
J16	05-Jan-2017	0%	63	0,00	Rs0	0,00	Rs0	Rs0
J16	08-Mar-2017		64	0,00	Rs0	0,00	Rs0	Rs0
J16	13-Nov-2016	0%	64	0,00	Rs0	0,00	Rs0	Rs0
J16	24-Nov-2016	0%	64	0,00	Rs0	0,00	Rs0	Rs0
J16	29-Dec-2016	0%	64	0,00	Rs0	0,00	Rs0	Rs0
J16	01-Jan-2017	0%	64	0,00	Rs0	0,00	Rs0	Rs0
J17	18-Jan-2017	0%	106	0,00	Rs0	0,00	Rs0	Rs0
J16	02-Feb-2017	0%	93	0,00	Rs0	0,00	Rs0	Rs0
J16	20-Feb-2017	0%	78	0,00	Rs0	0,00	Rs0	Rs0
J17	12-Jan-2017	0%	64	0,00	Rs0	0,00	Rs0	Rs0
J17	30-Jan-2017	0%	64	0,00	Rs0	0,00	Rs0	Rs0
J17	07-Feb-2017	0%	64	0,00	Rs0	0,00	Rs0	Rs0
J17	13-Feb-2017	0%	64	0,00	Rs0	0,00	Rs0	Rs0
J17	08-Mar-2017	0%	64	0,00	Rs0	0,00	Rs0	Rs0
J17	28-Mar-2017		63	0,00	Rs0	0,00	Rs0	Rs0
J17	11-Jan-2017	0%	63	0,00	Rs0	0,00	Rs0	Rs0
J17	29-Jan-2017	0%	63	0,00	Rs0	0,00	Rs0	Rs0
J17	20-Mar-2017	0%	63	0,00	Rs0	0,00	Rs0	Rs0
J17	26-Mar-2017	0%	63	0,00	Rs0	0,00	Rs0	Rs0
J17	28-Apr-2017		0	0,00	Rs0	0,00	Rs0	Rs0
J17	23-Jan-2017	0%	0	0,00	Rs0	0,00	Rs0	Rs0
J17	26-Feb-2017	0%	0	0,00	Rs0	0,00	Rs0	Rs0
J17	09-Mar-2017	0%	0	0,00	Rs0	0,00	Rs0	Rs0
J17	27-Mar-2017	0%	0	0,00	Rs0	0,00	Rs0	Rs0
J17	30-Mar-2017	0%	0	0,00	Rs0	0,00	Rs0	Rs0
J17	30-Mar-2017	0%	23	0,00	Rs0	0,00	Rs0	Rs0
J17	05-Apr-2017	0%	0	0,00	Rs0	0,00	Rs0	Rs0
J17	11-Apr-2017	0%	0	0,00	Rs0	0,00	Rs0	Rs0
J17	17-Apr-2017	0%	0	0,00	Rs0	0,00	Rs0	Rs0
J17	23-Apr-2017	0%	0	0,00	Rs0	0,00	Rs0	Rs0
J17	26-Apr-2017	0%	0	0,00	Rs0	0,00	Rs0	Rs0







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