

PROJECT REPORT

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**SEMESTER: SPRING-2017, MSPM - II
MANAGEMENT)**

PROGRAM: MS (PROJECT

500kV/220kV New LAHORE TRANSMISSION LINE PROJECT



BAHRIA UNIVERSITY LAHORE CAMPUS

SUBMITTED TO: MR. AHSAN MAQBOOL

SUBMISSION DATE: 20-Jun-2017



华中电力国际经贸有限责任公司

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CERTIFICATE

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

It is witnessed that Mr. Bilal Farooq Enrollment: 03-298162-043 Class: MSPM-II Semester: SPRING 2017 has participated in our real-time projects for implementing project management skills using EPM as a leading software tool.

He during participation in organization's project, has contributed fully in our ongoing 500kV Transmission Line Projects and within **planning, scheduling, earned value analysis**.

1. Project cost management
2. Project scheduling and time management
3. Project Risk Management

Additionally, it is noteworthy to mention that Mr. Bilal Farooq demonstrated good ethical practices, enthusiastic approach to work, task convergence capabilities, professionalism while his connection with this organization.

Certified By:

MA DESHENG

PROJECT MANAGER

M/s CENTRAL CHINA POWER GRID.



Preface

To apply the learned tools and techniques of MSPM program of Bahria University, Lahore Campus and for the mandatory requirement of the course MSP-632 (Dynamics of PMO and EPM Server) we have chosen the ongoing project of 500KV/220KV NEW LAHORE TRANSMISSION LINE PROJECT;

1. The Project Management Office (PMO) Model. Which has been recommended for M/s Central China Power Grid International Economic & Trade Co. Ltd.
2. Project planning, scheduling, resource allocation, and budgeting and number of highly useful reports using MS Project 2013.

ACKNOWLEDGEMENTS

In the Name of Almighty ALLAH, the most beneficial and the merciful. I highly thank my parents, colleagues, friends and family for their prayers in making this project possible with best of my efforts within the due timelines.

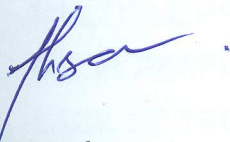
I could not have developed this if I was not guided and instructed by my esteemed and valued course instructor, Sir Ahsan Maqbool. Thank you very much for your kind support, cooperation and very informative study sessions that indeed equipped me in applying Project Management tools and techniques in problems of practical business world.

I highly appreciate Bahria University, Lahore Campus, their management, faculty, staff and all support offices for their nonstop support, encouragement, motivation and providing the infrastructure that made me possible in developing this final project. Thank you all and it was and is indeed my pleasure in studying in such a prestigious institute of the country.

CERTIFICATE

This is to certify that this project report titled "500KV/220KV NEW LAHORE TRANSMISSION LINE PROJECT" done by the students named **Mr. Bilal Farooq**

Enrollment ID 03-298162-043, Mr. Mohsin Taqi Enrollment ID 03-298162-044
MSPM Spring 2017 has been examined by me and found it original i.e. author's own work without having any plagiarism in it.



Ahsan Maqbool

Course Instructor

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1- INTRODUCTION OF COMPANY

M/s Central China Power Grid International Economic and Trade Co. Ltd has been working in the field of irrigation and power distribution specifically on high voltage transmission line projects from 1989 in Pakistan.

During past 27 years of services M/s CCPG worked with prestigious organization of Public sector in Pakistan including Pakistan Water and Power Development Authority (WAPDA) and National Transmission and Despatch Company Limited (NTDC).

1.1 COMPANY MAJOR PROJECTS

The major projects executed during last 10 years are as follows;

- i- Design, Supply, Installation, Testing & Commissioning of Associated Transmission Lines for New Lahore 500kV and Gujrat 220kV Substation
- ii- Design, Manufacture, Supply, Installation, Testing and Commissioning of 500kV Guddu-Multan 1st Circuit In & Out Arrangement at Dera Ghazi Khan Substation Contract No.ADB-53-2010 (Package-II), Loan 2396-PakTranche 2
- iii- Kachhi Canal Project (KC-05)

1.2 VISION

Our vision is to achieve company capability in the field of transmission line based on scientific planning, sound structure and advanced technology, safe and reliable, flexible operation, with unified standards & economic and operational efficiency.

1.3 MISSION

In Pakistan, our mission is to enhance the chances of acquiring more transmission line projects of 500 and 220 kV long distance transmission lines. Transforming from EPC to Self-financing with the help of State Grid Corporation of China (Mother Company) to improvise the strategic objectives in more efficient way.

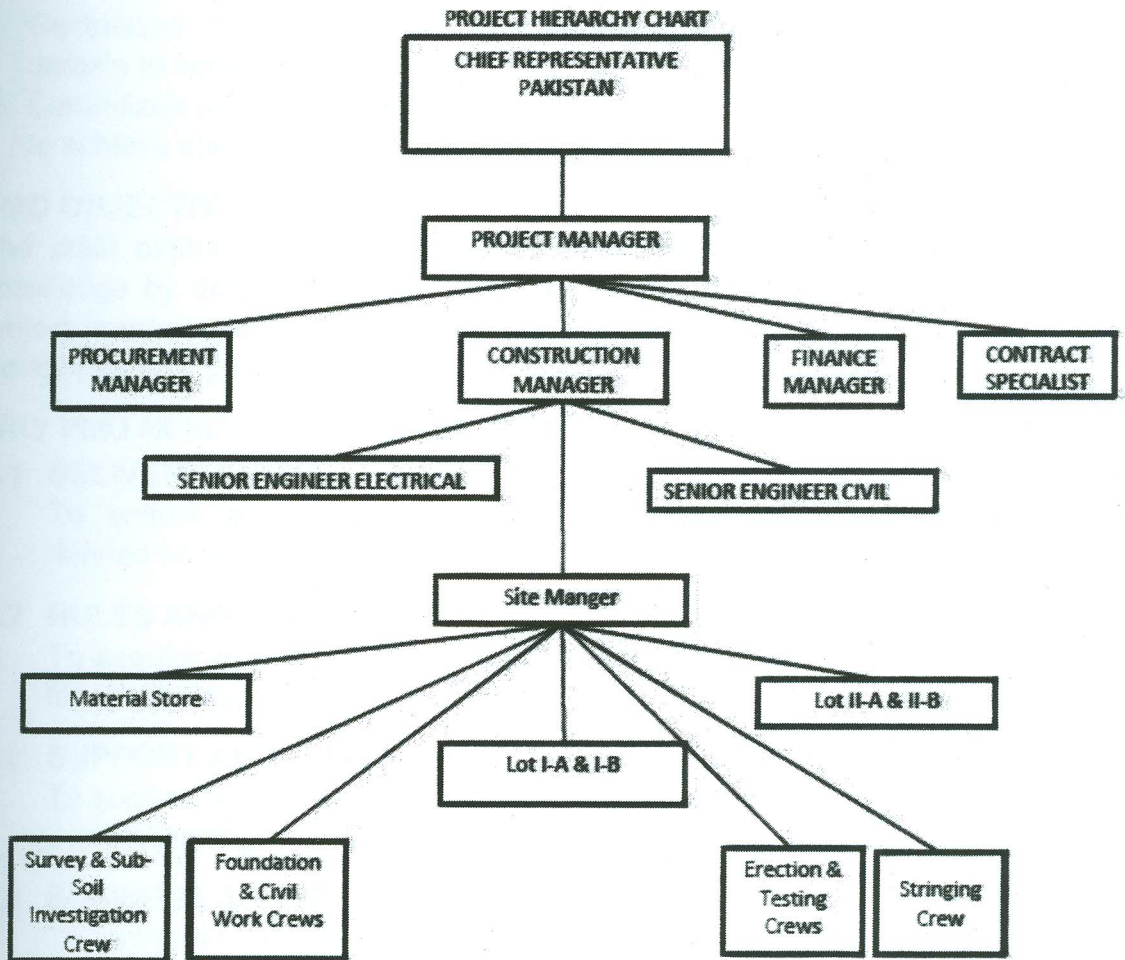
1.4 OBJECTIVES & BENEFITS OF THE PROJECT

The main objective of the installation of 500kV & 220kV T/L in the associated 500/220 kV substation is to enhance the capacity of the transmission system. This will improve voltage and stabilize power supply to the existing Transmission system of the region and thereby contributing to increase rate of electrification, development of industries and eliminate poverty of the area.

1.5 STRATEGIC GOALS

To build a modernized power grid company with a strong grid, excellent assets, service and performance. A sound assets portfolio with high profitability and solvency, low non-performing assets and operational cost, as well as maximum cash flow and minimum receivables.

1.6 ORGANIZATION STRUCTURE



2- PROJECT MANAGEMENT OFFICE

2.1 PMO INTRODUCTION

The Project Management Office (PMO) is a group, department or a team within a business, company or enterprise which defines, maintain and revise standards for project management within organization as per its designated authorities and coordinates the managements of projects under its domain. Depending upon the quantum of projects, programs and portfolio needed to be managed under PMO, the concept of PMO can either be conceived as follows;

- i- Centralized and coordinated management of **projects** under PMO's domain
- ii- Centralized and coordinated management of programs under PMO's domain to achieve program's strategic objective and benefits.
- iii- Centralized and coordinated management of portfolio under PMO's domain to achieve specific strategic business objectives.

2.2 PMO OBJECTIVE

The main objective of PMO is to achieve benefits of project management knowledge by defining, implementing, governing and revising (if required) the project management policies, processes, tool and methods. In short, PMO is indispensable if growth is desired and multiple projects are in hands.

2.3 WHY PMO NEEDED/ BASIC FUNCTIONS

2.3.1 DELIVERY SCOPE

To ensure project would achieve deliverables and objectives within defined schedule, cost and scope.

2.3.2 RULES AND PROCEDURES

To acquire standard and progressive project management methodologies for all project/programs.

2.3.3 SUPPORT AND GOVERNING

To support and govern, for a cohesive the projects/programs environment by establishing infrastructure and capabilities.

2.3.4 BUSINESS ALIGNMENT

To achieve coherence and applying the existing capabilities in an integrated way to all the projects/ programs to align business objectives.

2.3.5 STRATEGIC BUSINESS OBJECTIVES

Cross department collaboration required to achieve strategic business goals.

2.3.6 RATIONAL ALLOCATION OF RESOURCES

To help the enterprise to allocate the resources in a better way especially in cross functional projects.

2.3.7 TRAINING OF THE STAFF

PMO supports us to improve abilities and management skills of both managers and team leader.

2.4 FACTORS EMPHASIZING CREATION OF PMO

In those organization, where the methodologies and standards of Project Management are not being often faces a distress when the departments start using home grown ways/easy ways to complete the project which may cause few or all of the following situations;

2.4.1 MULTIPLE PROJECTS

Large no. of Projects started but few completed

2.4.2 POOR PERFORMANCE

All sort of expenditures is incurring in the project but the desired results in terms of deliverable is not achieving

2.4.3 LACK OF TROUBLESHOOTING

Same problems recur in most of the projects.

2.4.4 REPORTING FAILURE

It became difficult of to track the project.

2.4.5 RECORD MANAGEMENT

Poor management of project documents and correspondence between different stakeholders

2.4.6 PRIORITIES

Urgent issues always acquire significance as compared to the important issues

2.5 BENEFITS OF PMO

The following factors has discussed in terms of advantages for PMO in an organization as:

2.5.1 TRANSPARENCY

PMO brings an environment of transparency throughout project.

2.5.2 CONTROL

The level of control can be enhance by implementing PMO within the project/ program/ portfolio.

2.5.3 DECISION MAKING

It significantly improve decision making especially if PMO is of directive type and have achieved 5th maturity level i.e. Center of Excellence.

2.5.4 RISK

PMO helps in minimizing uncertainty and related risks in the projects.

2.6 FIVE HIGH LEVEL STAGES OF PMO

The Project management office can be define and implement in the capacity of following 5 high level stages;

2.6.1 PROJECT OFFICE

Achieve Programs/Program/Projects deliverables and objectives within defined scope, schedule and cost. The time frame is usually for such setups is less than 6 months.

2.6.2 BASIC PMO

Provide a standard and repeatable PM methodology for use across all Programs/Program/Projects. The time frame is usually for such setups is less than 12 months.

2.6.3 STANDARD PMO

Establish capability and infrastructure to support and govern a cohesive Programs/Program/Projects environment. Time Frame may be either less than on year or two year.

2.6.4 ADVANCED PMO

Apply an integrated and comprehensive Programs/Program/Projects management capability to achieve business objectives.

Time Frame: Stage 3+ < 2yrs

2.6.5 CENTER OF EXCELLENCE

Manage continuous improvement and cross-department collaboration to achieve strategic business goals. Time Frame: Stage 3 + (2yrs)

2.7 PMO FUNCTIONAL MODELS

Following are the brief view of functional models of PMO that can be applied in an organization or enterprise.

2.7.1 PRACTICE MANAGEMENT

It includes the application of project management knowledge in the light of processes and standards defined. Further, it may also include the software's being helpful in the implementation of aforesaid mentioned knowledge.

2.7.2 INFRASTRUCTURE MANAGEMENT

The control and compliance of standards and methodologies as per provided templates and ideas is catered in this model. It is further facilitated by developing the requisite infrastructure with equipment support.

2.7.3 RESOURCE INTEGRATION

It includes the smooth and rational development, distribution and management of resources.

2.7.4 TECHNICAL SUPPORT

This may include exclusive implementation during the commencement of a project, including planning, auditing and project recoveries.

2.7.5 BUSINESS ALIGNMENT

Pertinent to the project/ portfolio management, strategic objectives and performing business management.

3- ESTABLISHMENT OF PROJECT MANAGEMENT OFFICE IN M/s CCPG, LAHORE.

3.1 NEED OF PMO IN M/S CCPG

The PMO is indispensable within the current setup of the company and shall be implemented as soon as possible due to the following facts;

- i- Project progress in term of scope, cost and time should be analyzed rationally as per modern project management techniques i.e. EVM
- ii- Reporting is backbone in transmission line projects. There is huge margins of improvement if reporting means are synchronized and hierarchical chain is clarified.
- iii- Introduction and improvement of basic project management skills within staff can benefits both company and employee within their individual capacity. If Project manager is preoccupied by urgent activities, there must be a system to remind and help project manager to focus on critical path activities.
- iv- Introduction and training of Risk Management.
- v- Wastage of resources can be avoided, especially by improving integration between all the working site and head office.
- vi- There is always room for improvement in record and data management system.
- vii- Conflicts between stakeholders especially in between client, contractor and consultant, sometimes become worst and can only be controlled by effective communication.
- viii- Business sense to bid projects with more profits and achievable scope.
- ix- The lesson learned can be compiled and noted down to avoid mistakes in next project.

3.2 PROBLEMS DUE TO ABSENCE OF PMO

Followings are the brief overview of the bottlenecks with in project due to absence of PMO in the company;

3.2.1 LACK OF PERFORMANCE MEASUREMENT STANDARDS

The company is working on relatively large scale projects, but outdated ways of measuring performance and progress are still used. There is no

awareness of earn value management techniques and the only few ways of measuring performance are

- i- Performance measurement by comparing schedule disbursement and actual disbursement
- ii- Performance measurement by comparing schedule work done and actual work done.
- iii- MS Excel is used in view of aforesaid mentioned performance measurement due to which clear pictures cannot be depicted in the progress reports.

The training should be conducted for the introduction and use of modern software like Primavera and MS Project.

3.2.2 FINANCIAL LOSSES ARISES DUE TO NON-SUBMISSION OF CLAIMS

Due to absence of PMO there is no proper comparisons available between baseline and actual time cost and scope. Therefore, the company has to submit the cost and time claims especially Extension of time and cost without proper justifications.

Any addition in scope of work vide change orders is always accepted however the delay in the project is not catered consequent thereupon Overhead charges, management charges are not analyzed.

3.2.3 DETERMINING PRIORITIES AND COMMUNICATION HURDLES

Absence of central and independent entity is causing information to become invisible after some time. The matters of supreme consideration is always ignored due to urgent matters. Following few examples are hereby cited for the better understanding;

- i- ROW and possession of site issues on daily basis hindered project authority to focus on payments disbursement schedule.
- ii- Monthly progress milestones keep delay as pending works of last month always are ahead of current months' targets mainly due to miscommunication.

3.2.4 ALLOCATION OF RESOURCES

Resources are asset to any project they should be used and allocated wisely, project managers with no sense of allocation misuse the resources and this may result in wastage of money, time, and effort.

3.2.5 NO RECORD OF LESSON LEARNED

The lessons learned during the execution of previous projects are never cited anywhere due to which no wisdom is transferred to subsequent projects.

3.2.6 TRAINING AND GROOMING OF STAFF

No platform available in the company which can arrange trainings in the following fields to improve technical and management skills of the staff;

- i- Basic Project management skills
- ii- Safety
- iii- Introduction to the Contract and Procurement
- iv- Technical trainings
- v- Commercial training (dealings with bank and Loans as requirements of account section to avoid hurdles during audit)

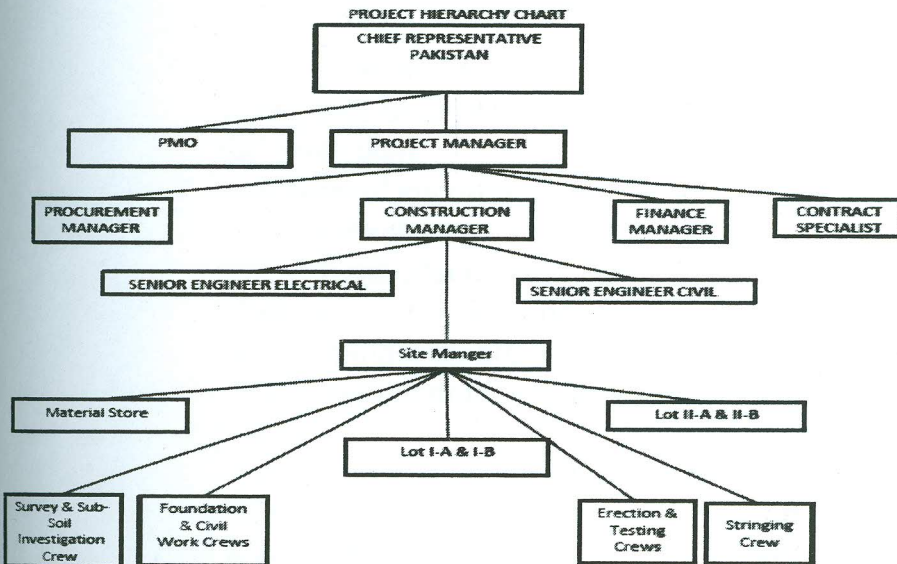
3.3 EXISTING ARRANGEMENT TO DEAL PROJECT MANAGEMENT:

There is no any PMO in the company, however being a projectized company Project Manager and Construction Manager are working as defacto PMO.

3.4 PROPOSED PROJECT MANAGEMENT OFFICE TYPE:

Keeping in view the existing structure of the company, ongoing projects, meetings and interviews with different staff member the proposed PMO is "SUPPORTIVE TYPE" which will surely provide productive benefits to the company by suggesting several changes in the existing structure. The Supportive PMO generally provides support in the form of on-demand expertise, templates, best practices, access to information and expertise on other projects, and the like. This can work in an organization where projects are done successfully in a loosely controlled manner and where additional control is deemed unnecessary. Also, if the objective is to have a sort of "clearing-house" of project management information across the enterprise to be used freely by project managers, then the Supportive PMO is the right type.

3.5 ORGANIZATION STRUCTURE:



3.6 PMO SCOPE

- i- Developing project management standards.
- ii- Finalization of templates and documentations
- iii- Recommendation of require software
- iv- Conducting trainings
- v- Monitoring progress of the project.
- vi- Developing effective and integrated communication with in company.

3.7 PMO MISSION

To support organization using project management to improve the scope, time and cost related to running projects.

3.8 PMO VISION

Performance based and result oriented service for the company and to establish higher level PMO to assist in company growth.

3.9 PMO ROLES & RESPONSIBILITES

Following are the core roles and responsibility of PMO at initial supportive stage;

- i- The PMO will report to the Chief Representative Pakistan.
- ii- The PMO will help in planning schedules and program of performance after taking inputs from Construction Manager

- iii- Arrangements of training of contract specialist so that concern project staff shall know the contractual responsibilities, indemnities, requirements and bindings
- iv- It will help administrator to maintain vehicle data record.
- v- Provide templates of daily/monthly/ yearly progress reports and next day/month/ year plan.
- vi- Maintain records of import and concern correspondence between company, client and consultant
- vii- It will arrange to introduce latest safety standards.
- viii- Give suggestion to project manager to effectively allocate the resources
- ix- Help Project manager by providing updated project charts.
- x- Help contract department for claims by providing data management techniques.
- xi- Introduction and training of new project software.
- xii- Try to avoid any confrontation and conflict with existing project hierarchy.
- xiii- Organize surveys within organization for the feedback and self-evaluation.

3.10 PROJECT MANAGEMENT METHODOLOGY

PMBOK 5th edition is a main source of guidance as a project management approach. Same shall be used by PMO.

3.11 REPORTING TO THE MANAGEMENT

The PMO shall report to the Chief Representative Pakistan on weekly basis which shall include but not limited to;

- i- Status of the project
- ii- Suggestions
- iii- Survey reports
- iv- Short terms plan
- v- Long term plans

3.12 RESULTS AFTER IMPLEMENTING PMO

Followings are the key benefits achieved after PMO implementation;

- i- Project status become clearer and a separate file of Work performance information is established.
- ii- Progress charts, graph, tracking and other schedule tools are being implemented.
- iii- Training of MS Project is conducted.
- iv- Survey of feedback and suggestions conducted.
- v- All the documents are arranged for future reference.
- vi- Lesson learned are individually inquired from experienced employees and try to establish Organization Process Assets

Moreover, following improvements can be made;

- i- PMO roles and responsibilities can further be manifested
- ii- Risk related improvements, suggestions are missing
- iii- Lack of information gathering from the stakeholders outside the organization.

4- PROJECT CHARTER

4.1 GENERAL INFORMATION

Project Title	Design, Supply, Installation, Testing & Commissioning of associated Transmission Lines for Gujrat 500kV Substation		
Brief Project Description	Construction of 500kV Transmission Line to Energize 500kV Substation from Rawat – Lahore 500kV T/L		
Prepared By	Bilal Farooq 03-298162-043	Mohsin Taqi Kazmi 03-298162-044	
Date	15 th Feb, 2017	Version	1.0

4.2 PROJECT OBJECTIVES

1. The Project will create a new business opportunity for the organization
2. Expertise in the field of Transmission Line in Pakistan
3. Interconnection of 500kV Circle Substations i-e 500kV Rawat to 500kV Lahore Substation
4. Enhance the capacity of the transmission line system
5. Parallel Distribution of power in North Punjab Region
6. Fulfill the increasing demand of industry in Gujrat, Punjab

4.3 PROJECT MILESTONES

Milestones	Deliverables	Date
Design Completion	Plan & Profile Construction Structure List Foundations Drawings Towers Drawings Hardware Drawings	30 th Mar, 2017
Procurement of Facilities	Tower Material Hardware ACSR Conductor	7 th Jun, 2017
Foundations of towers	Pile Foundations Spread Footing Foundation Pile Caps Tie Beams	19 th Aug, 2017
Erection of Towers	Erection of DS1, DD1 & JKD towers Tightening, Punching and Welding of towers	25 th Sep, 2017
Stringing Completion	Stringing of OPGW Stringing of Conductor	28 th Oct, 2017
Testing	Prior to energization Insulation Test	31 st Oct, 2017
Commissioning	After energization final testing and handover	2 Nov, 2017

4.4 PROJECT STAKEHOLDERS

Sr. No	Stakeholder	Position
1	National Transmission & Despatch Company Ltd.	Client
2	National Engineering Services Pakistan	Client Representative

3	Central China Power Grid Int'l Economic & Trade Co. Ltd.	Main Contractor
4	Forest Department	Trees are to be cut
5	Landowners of towers	Major Stakeholders
6	JICA, Japan	Financer
7	KICT, PICT	Shipping Port
8	Subcontractors	Resource Providers

4.5 IMPACT STATEMENT

Potential Impact	System/ Department Impacted
Tree Cutting along the Corridor of transmission line	Environmental factor/ Forest Department
No construction will be allowed at the corridor of transmission due to safety	Civil Issue/ Gujrat Development Authority

4.6 ROLES & RESPONSIBILITIES

Sr. No	Name	Roles & Responsibility	Contact
1	Wang Bo	Chief Executive	
2	Huang Rixiong	Head PMO	Ccpg1956@hotmail.com
3	Ma Desheng	Project Manager	cetpakistan@hotmail.com
4	Yui Yabin	Deputy Project Manager	
5	Bilal Farooq	Construction Manager	bilalfarooq89@gmail.com 0345-5141417
6	Mohsin Taqi Kazmi	Site Manager	mohsinccpg@yahoo.com 0335-5250080

4.7 PROJECT RISKS

Risks	Category	Strategy	Description
Rainy Season	Environment	Accept	Demobilize subcontractors
Right of Way	Management	Mitigate	<ol style="list-style-type: none"> 1. Crop compensation payments 2. Lease agreement 3. NOC Letter
Paddy Crop Season	Environment	Avoid	Schedule the activities to avoid paddy crop

4.8 PROJECT BUDGET

The allocated budget of the project is PKR15, 000,000

4.9 TIME

The project is meant to be complete within 8 months (220 days).

5- PROJECT SCOPE STATEMENT

5.1 SCOPE DESCRIPTION

- i- Detailed Survey of proposed route of transmission line
- ii- Generate and approval of Plan & Profile from NTDC
- iii- Design of 500kV towers and approval from client i-e NTDC
- iv- Preparation and Approval of Construction Structure List
- v- Procurement of facilities for the proposed 500kV transmission line from abroad
- vi- Construction of spread footing foundations/ piling of all towers as per approved drawing and concrete mix ratio
- vii- Erection of 500kV towers as per approved drawings

- viii-Tightening, Punching, Welding and Inspection of towers
- ix- Installation of hardware on towers as per approved drawings
- x- Stringing of overhead Shield Wire/ OPGW
- xi- Stringing of ACSR Drake Conductor on all towers
- xii- Dead ending, mid span jointing, jumpering, and compression slicing on all towers
- xiii-Testing of transmission line i-e continuity testing.
- xiv- Commissioning of transmission line

5.2 CONSTRAINTS

- i- Survey of transmission line must start on 20th June, 2017
- ii- Factory Acceptance Test (FAT) is scheduled on 15th August, 2017
- iii- Delivery of tower material, grounding material and hardware must be completed before 12th October, 2017
- iv- Machinery should not be shifted to site before clearance i-e site clearance and ROW
- v- Progress Meetings are schedule on 10th of each month to review progress and take corrective measures if required

5.3 EXCLUSIONS

- i- Construction of 500kV Substation is not scope of M/s CCPG
- ii- Possession of site is responsibility of client.
- iii- CCPG will not take any responsibility for clearance of ROW

5.4 SUCCESS CRITERIA

- i- Timely Completion of Project
- ii- Completion of Project within approved budget
- iii- Meeting the quality of project as per client requirement

5.5 ASSUMPTIONS

Project will be completed within approved time schedule and budget

6- MICROSOFT PROJECT SHEETS

6.1 WBS, Activities, Milestones

6.2 Resource Sheet

ID	Task Mode	WBS	Task Name	Duration	Start	Finish	Predecessors
1		1	Construction of 500kV Transmission Lin	212.33 days	Sat 10-06-17	Tue 27-02-18	
2		1.1	Design	32 days	Tue 20-06-17	Wed 02-08-17	
14		1.2	Supply	56.33 days	Wed 02-08-17	Thu 12-10-17	
20		1.3	Installation	112 days	Thu 12-10-17	Thu 22-02-18	19
21		1.3.1	Foundations	56 days	Thu 12-10-17	Mon 18-12-17	
78		1.3.2	Erection	28 days	Mon 18-12-17	Sat 20-01-18	54
79		1.3.2.1	Material Shifting	5 days	Tue 19-12-17	Sat 23-12-17	54
80		1.3.2.2	Assembly	8 days	Tue 26-12-17	Wed 03-01-18	79
81		1.3.2.3	Erection	20 days	Tue 26-12-17	Wed 17-01-18	80SS
82		1.3.2.4	Tightening	3 days	Mon 15-01-18	Wed 17-01-18	81FF
83		1.3.2.5	Punching of Bolts	3 days	Thu 18-01-18	Sat 20-01-18	82
84		1.3.2.6	Welding upto 8m	3 days	Thu 18-01-18	Sat 20-01-18	82
85		1.3.2.7	Erection of Towers Completed	0 days	Mon 18-12-17	Mon 18-12-17	
86		1.3.3	Stringing	28 days	Mon 22-01-18	Thu 22-02-18	
87		1.3.3.1	Material Shifting	5 days	Mon 22-01-18	Fri 26-01-18	78
88		1.3.3.2	Insulator Hoisting	3 days	Sat 27-01-18	Tue 30-01-18	87
89		1.3.3.3	Machinery Shifting	3 days	Mon 22-01-18	Wed 24-01-18	78
90		1.3.3.4	Payout	2 days	Wed 31-01-18	Thu 01-02-18	88
91		1.3.3.5	Pulling of Conductor	6 days	Fri 02-02-18	Thu 08-02-18	90
92		1.3.3.6	Pulling of OPGW	2.44 days	Fri 09-02-18	Thu 22-02-18	91
93		1.3.3.7	Sagging	3 days	Tue 06-02-18	Thu 08-02-18	91FF
94		1.3.3.8	Dead Ending	12 days	Fri 09-02-18	Thu 22-02-18	91

Critical		Manual Task		Baseline Milestone		External Tasks	
Critical Split		Start-only		Milestone		External Milestone	
Critical Progress		Finish-only		Summary Progress		Inactive Task	
Task		Duration-only		Summary		Inactive Milestone	
Split		Baseline		Manual Summary		Inactive Summary	
Task Progress		Baseline Split		Project Summary		Deadline	

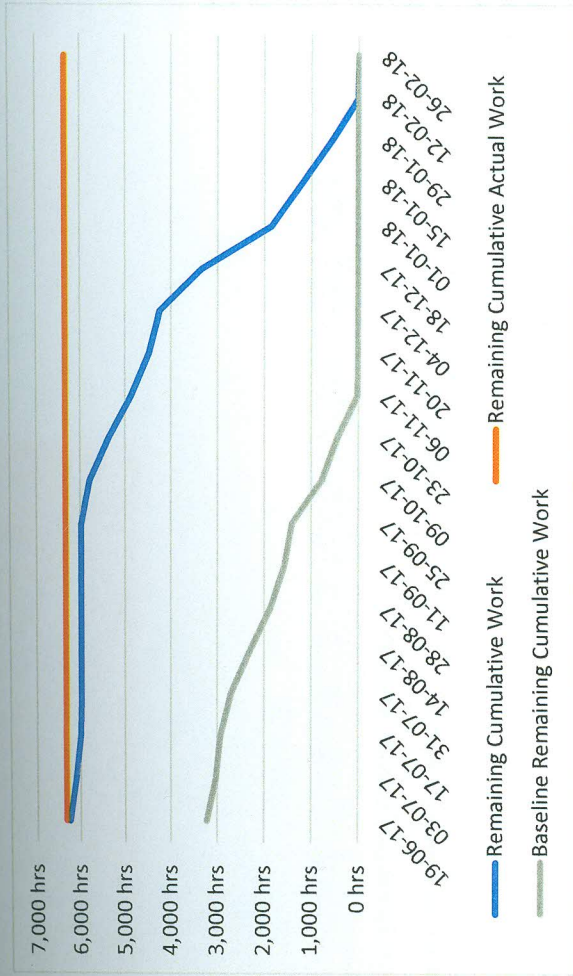
ID	WBS	Task Name	Duration	Start	Finish	Predecessors	F	S	S	T	W	T	F	S	S	M	T	19 Jun '17
95	1.3.3.9	Clipping	5 days	Fri 09-02-18	Wed 14-02-18	91												
96	1.3.3.10	Jumping at Dead Tower	10 days	Fri 09-02-18	Tue 20-02-18	91												
97	1.4	Testing	2 days	Fri 23-02-18	Sat 24-02-18													
98	1.4.1	Run off Survey	1 day	Fri 23-02-18	Fri 23-02-18	86												
99	1.4.2	Hi-Pot Testing	1 day	Sat 24-02-18	Sat 24-02-18	98												
100	1.5	Commissioning	2 days	Mon 26-02-18	Tue 27-02-18	99												
101	1.5.1	Shutdown	1 day	Mon 26-02-18	Mon 26-02-18	99												
102	1.5.2	Bundling of Conductor	1 day	Mon 26-02-18	Mon 26-02-18	101SS												
103	1.5.3	Energization of T/L	1 day	Tue 27-02-18	Tue 27-02-18	102												
104	1.5.4	500kV Line Energized	1 day	Mon 26-02-18	Mon 26-02-18													
105	1.6	Progress Review Meeting	121.33 days	Sat 10-06-17	Fri 10-11-17													0%

Task Type	Color	Symbol	Task Name	Color	Symbol	Task Name	Color	Symbol
Critical	Orange	None	Manual Task	Blue	None	Baseline Milestone	White	Diamond
Critical Split	Red Dotted	None	Start-only	Blue	[Milestone	Black	Diamond
Critical Progress	Red	None	Finish-only	Blue]	Summary Progress	Grey	None
Task	Blue	None	Duration-only	Blue	None	Summary	Black	None
Split	Blue Dotted	None	Baseline	Black	None	Manual Summary	Black	None
Task Progress	Blue	None	Baseline Split	Black	None	Project Summary	Black	None
External Tasks	Green	None	External Milestone	White	Diamond	External Milestone	White	Diamond
Inactive Task	Grey	None	Inactive Milestone	White	Diamond	Inactive Milestone	White	Diamond
Inactive Summary	Grey	None	Inactive Summary	White	Diamond	Inactive Summary	White	Diamond
Deadline	Green	Down Arrow	Deadline	Green	Down Arrow	Deadline	Green	Down Arrow

7- Reports

- i- Burndown
- ii- Cost overview
- iii- Project Overview
- iv- Over allocated resources
- v- Resource Overview
- vi- Cash Flow
- vii- Cost Overruns
- viii- Earn Value Reports
- ix- Resource Cost Overview
- x- Task cost overview
- xi- Critical Task
- xii- Milestone Report
- xiii- Slipping Task
- xiv- S- Curve

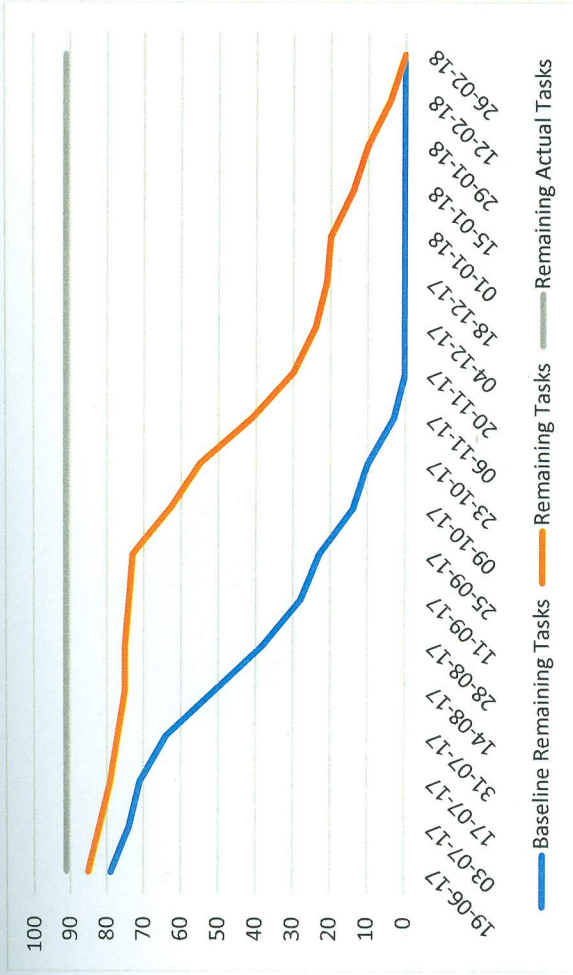
BURNDOWN



WORK BURNDOWN

Shows how much work you have completed and how much you have left. If the remaining cumulative work line is steeper, then the project may be late. Is your baseline zero?

[Try setting a baseline](#)



TASK BURNDOWN

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

[Learn more](#)

PROJECT OVERVIEW

FEB 15 '17 - NOV 10 '17

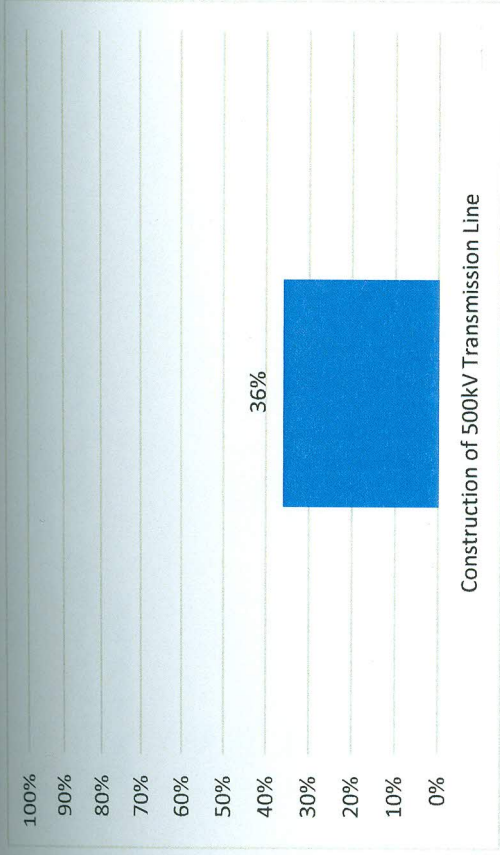
% COMPLETE

36%

MILESTONES DUE

Milestones that are coming soon.

Name	Finish
Conventional Foundations Completed	Jul 27 '17
Erection of Towers Completed	Aug 19 '17



Construction of 500kV Transmission Line

LATE TASKS

Tasks that are past due.

Name	Start	Finish	Duration	% Complete	Resource Names
------	-------	--------	----------	------------	----------------

OVERALLOCATED RESOURCES

WORK STATUS

Work status for overallocated resources.

1 hrs
1 hrs
1 hrs
1 hrs
1 hrs
1 hrs
0 hrs
0 hrs
0 hrs
0 hrs
0 hrs

0 hrs

■ Actual Work ■ Remaining Work

OVERALLOCATION

Surplus work assigned to overallocated resources. To resolve overallocations use

[Team Planner View](#)

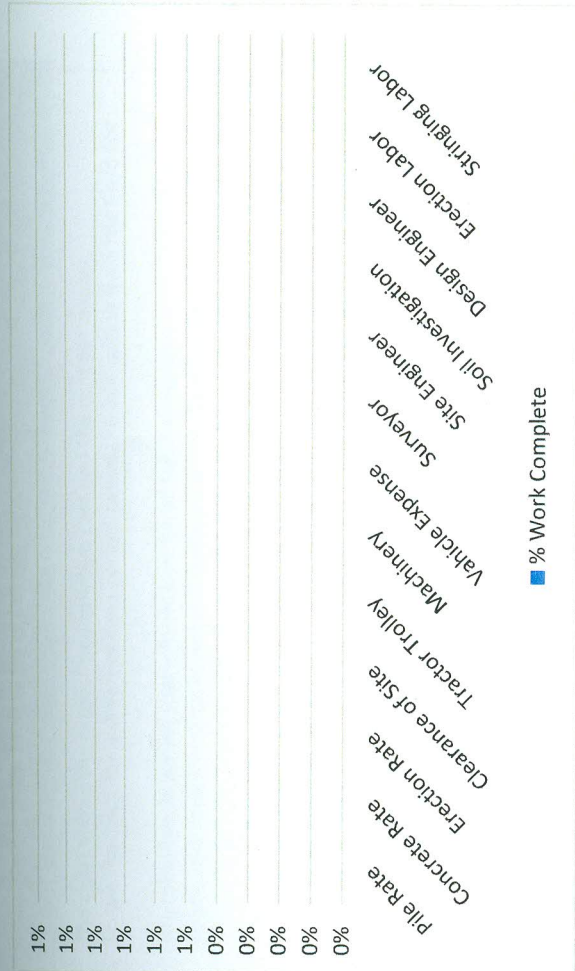
1 hrs
1 hrs
1 hrs
1 hrs
1 hrs
1 hrs
0 hrs
0 hrs
0 hrs
0 hrs
0 hrs

20-06-17

— Overallocation

RESOURCE OVERVIEW

WORK STATUS
% work done by all the work resources.



RESOURCE STATUS
Work status for all work resources.



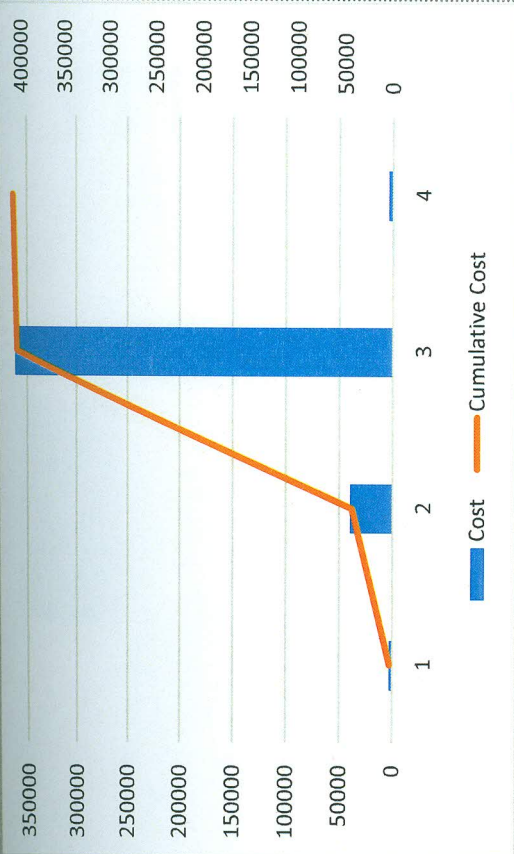
RESOURCE STATUS

Remaining work for all work resources.

Name	Start	Finish	Remaining Work
Pile Rate	Tue 31-10-17	Mon 18-12-17	216 hrs
Concrete Rate	Mon 23-10-17	Sat 02-12-17	72 hrs
Erection Rate	NA	NA	0 hrs
Clearance of Site	Fri 13-10-17	Wed 18-10-17	81 hrs
Tractor Trolley	Wed 18-10-17	Thu 01-02-18	288 hrs
Machinery	NA	NA	0 hrs
Vehicle Expense	Tue 20-06-17	Mon 26-02-18	1,197 hrs
Surveyor	Tue 20-06-17	Sat 01-07-17	45 hrs
Site Engineer	Wed 18-10-17	Mon 26-02-18	1,368 hrs
Soil Investigation	Sat 01-07-17	Sat 08-07-17	54 hrs
Design Engineer	Sat 08-07-17	Wed 02-08-17	189 hrs
Erection Labor	Tue 26-12-17	Tue 30-01-18	2,349 hrs

CASH FLOW

Rs 25,785.00 Rs 409,837.50 Rs 517.50
 Rs 384,570.00



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

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

Name	Remaining Cost	Actual Cost	Cost	ACWP	BCWP	BCWS
Construction of 500kV Transmission Line	Rs 384,570.00	Rs 25,785.00	Rs 410,355.00	Rs 25,785.00	Rs 25,267.50	Rs 63,517.50

COST OVERVIEW

SAT 10-06-17 - TUE 27-02-18

COST

Rs 409,837.50

REMAINING COST

Rs 409,837.50

% COMPLETE

0%

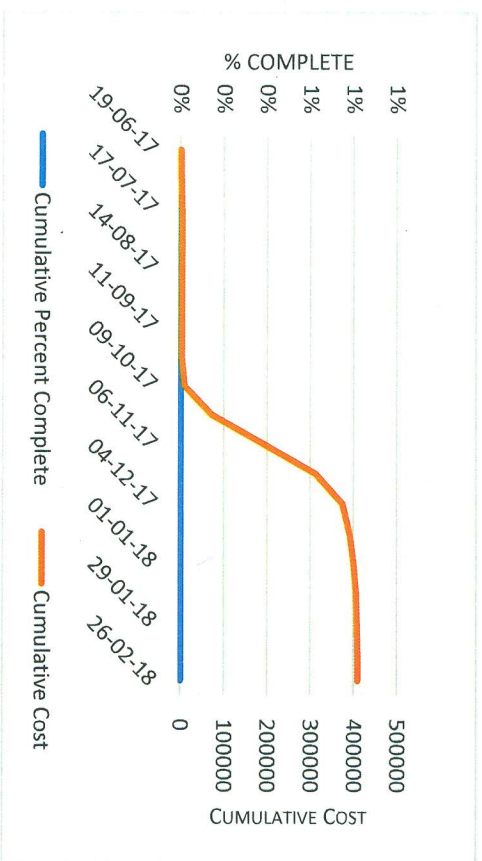
COST STATUS

Cost status for top level tasks.

Name	Actual Cost	Remaining Cost	Baseline Cost	Cost	Cost Variance
Construction of 500kV Transmission Line	Rs 0.00	Rs 409,837.50	Rs 435,990.00	Rs 409,837.50	(Rs 26,152.50)

PROGRESS VERSUS COST

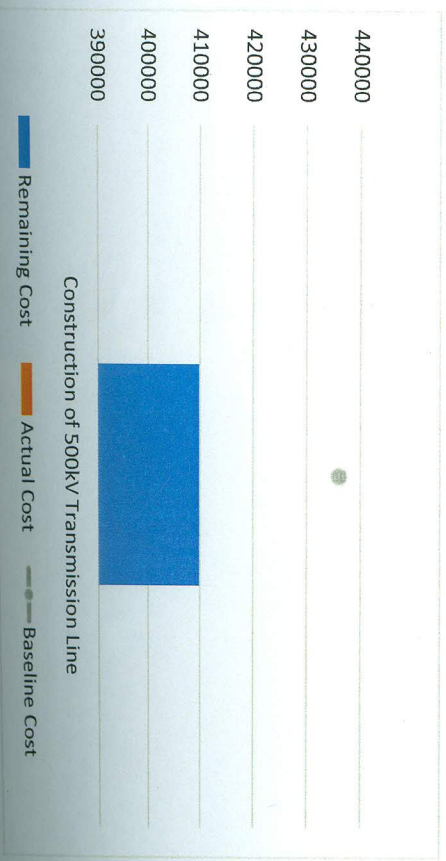
Progress made versus the cost spent over time. If % Complete line below the cumulative cost line, your project may be over budget.



COST STATUS

Cost status for all top-level tasks. Is your baseline zero?

[Try setting as baseline](#)



EARNED VALUE

Earned value management helps you quantify the performance of a project. It compares costs and schedules to a baseline to determine if a project is on track.

When you set up the charts don't look right, make sure you have set a baseline, assigned costs to tasks or resources, and entered progress.

Rs

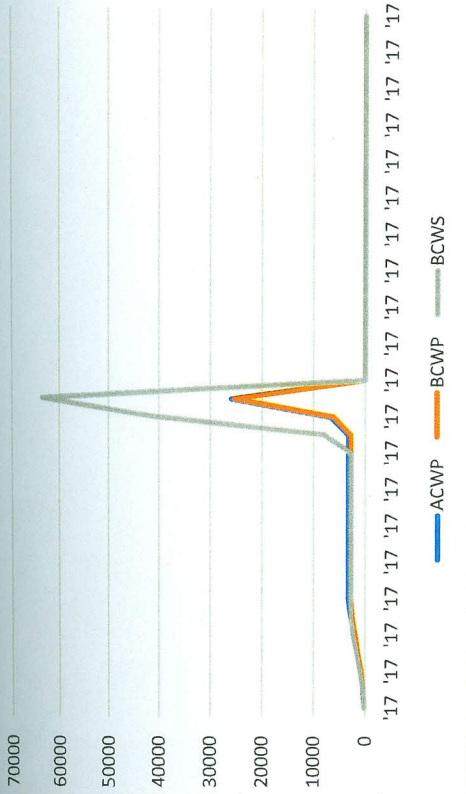
418,231.40

Rs

25,785.00

Rs

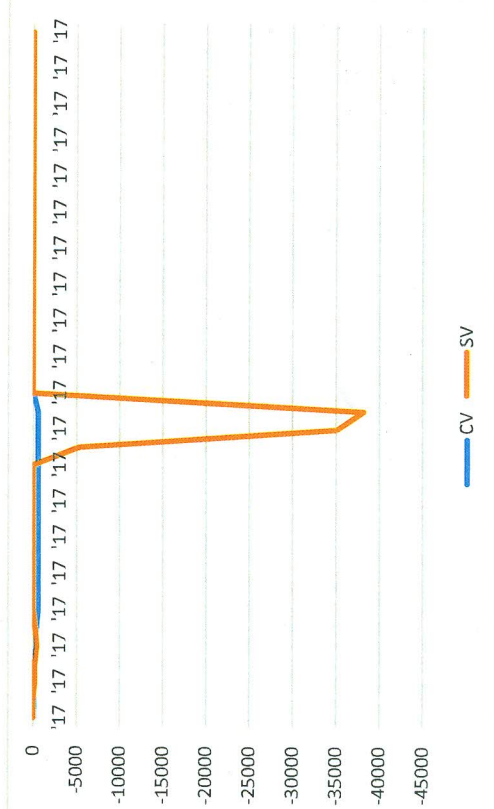
25,267.50



[Learn more about earned value](#)

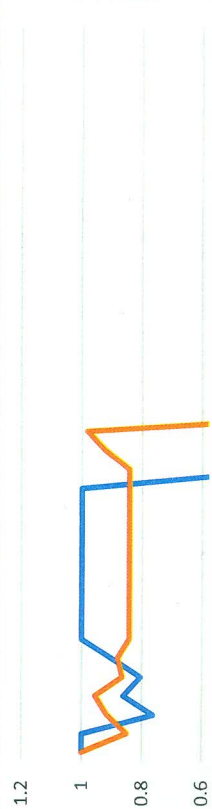
VARIANCE OVER TIME

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

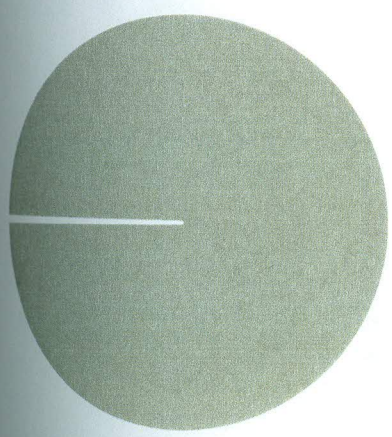


INDICES OVER TIME

Cost and schedule performance indices for the project based on status date. The greater the performance index, the more on schedule and cost saving the project.



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

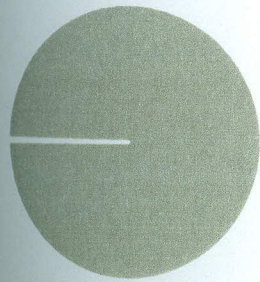


- Status: On Schedule
- Status: Late
- Status: Future Task

Name	Start	Finish	% Complete	Remaining Work	Resource Names
------	-------	--------	------------	----------------	----------------

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

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

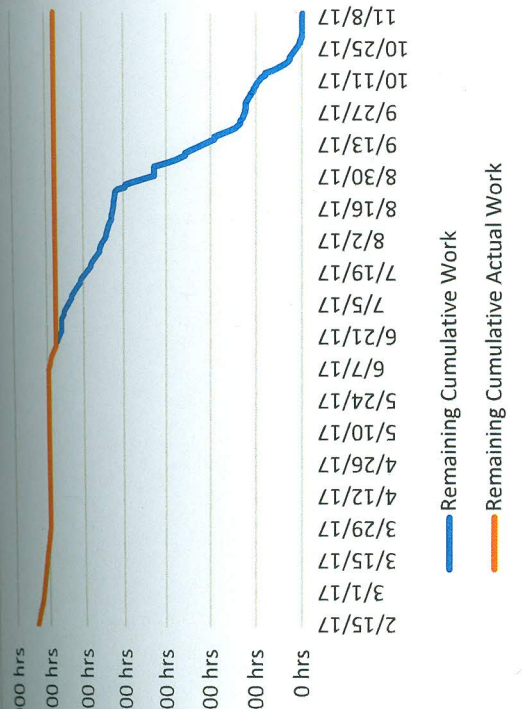


- Status: On Schedule
- Status: Late
- Status: Future Task

Name	Start	Finish	% Complete	Remaining Work	Resource Names
Material Shifting	Tue 19-12-17	Sat 23-12-17	0%	45 hrs	Tractor Trolley
Assembly	Tue 26-12-17	Wed 03-01-18	0%	504 hrs	Erection Labor[500%], Site Engineer, Vehicle Expense
Erection	Tue 26-12-17	Wed 17-01-18	0%	2,160 hrs	Erection Labor[1,000%], Site Engineer, Vehicle Expense
Tightening	Mon 15-01-18	Wed 17-01-18	0%	54 hrs	Erection Labor[200%]
Punching of Bolts	Thu 18-01-18	Sat 20-01-18	0%	108 hrs	Erection Labor[200%], Site Engineer, Vehicle Expense
Welding upto 8m	Thu 18-01-18	Sat 20-01-18	0%	54 hrs	Erection Labor[200%]
Material Shifting	Mon 22-01-18	Fri 26-01-18	0%	45 hrs	Tractor Trolley
Insulator Hoisting	Sat 27-01-18	Tue 30-01-18	0%	81 hrs	Erection Labor, Site Engineer, Tractor Trolley
Payout	Wed 31-01-18	Thu 01-02-18	0%	52 hrs	Site Engineer, Stringing Labor[500%], Tractor Trolley
Pulling of Conductor	Fri 02-02-18	Thu 08-02-18	0%	177 hrs	Site

Dead Ending	Fri 09-02-18	Thu 22-02-18	0%	296 hrs	Site Engineer, Stringing Labor [600%], Vehicle Expense
Run off Survey	Fri 23-02-18	Fri 23-02-18	0%	26 hrs	Site Engineer, Stringing Labor [200%], Vehicle Expense
Hi-Pot Testing	Sat 24-02-18	Sat 24-02-18	0%	18 hrs	Hi-POT Test, Site Engineer, Vehicle Expense
Shutdown	Mon 26-02-18	Mon 26-02-18	0%	0 hrs	
Bundling of Conductor	Mon 26-02-18	Mon 26-02-18	0%	18 hrs	Bundling, Site Engineer, Vehicle Expense
Energization of T/L	Tue 27-02-18	Tue 27-02-18	0%	0 hrs	

SLIPPING TASKS



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

Name	Start	Finish	% Complete	Remaining Work	Resource Names
Steel Fixing	Jun 17 '17	Jun 22 '17	25%	54 hrs	Vehicle Expense, Site Engineer
Stand Casing	Jun 23 '17	Jul 1 '17	0%	54 hrs	Site Engineer, Vehicle Expense
Drilling	Jun 23 '17	Jul 1 '17	0%	54 hrs	Site Engineer, Tractor Trolley
Cage Lowering	Jul 1 '17	Jul 5 '17	0%	54 hrs	Site Engineer, Vehicle Expense
Concrete Pouring	Jul 1 '17	Jul 5 '17	0%	54 hrs	Pile Rate, Site Engineer
Pile Cap Concrete	Jul 5 '17	Jul 10 '17	0%	0 hrs	
Steel Fixing	Jul 5 '17	Jul 10 '17	0%	72 hrs	Site Engineer, Vehicle Expense
Stand Casing	Jul 10 '17	Jul 13 '17	0%	54 hrs	Site Engineer, Vehicle Expense
Drilling	Jul 10 '17	Jul 13 '17	0%	54 hrs	Site Engineer, Vehicle Expense
Cage Lowering	Jul 13 '17	Jul 17 '17	0%	54 hrs	Site Engineer, Vehicle Expense
Concrete Pouring	Jul 13 '17	Jul 17 '17	0%	27 hrs	Pile Rate
Pile Cap Concrete	Jul 17 '17	Jul 21 '17	0%	36 hrs	Pile Rate

	Jul 21 '17	Jul 25 '17	Jul 28 '17	0%	54 hrs	Site Engineer, Vehicle Expense
Drilling						
Cage Lowering	Jul 25 '17	Jul 28 '17	0%	54 hrs	Site Engineer, Vehicle Expense	
Concrete Pouring	Jul 25 '17	Jul 28 '17	0%	27 hrs	Pile Rate	
Pile Cap Concrete	Jul 28 '17	Aug 2 '17	0%	36 hrs	Pile Rate	
Steel Fixing	Aug 2 '17	Aug 7 '17	0%	72 hrs	Site Engineer, Vehicle Expense	
Stand Casing	Aug 7 '17	Aug 10 '17	0%	54 hrs	Site Engineer, Vehicle Expense	
Drilling	Aug 7 '17	Aug 10 '17	0%	0 hrs		
Cage Lowering	Aug 10 '17	Aug 15 '17	0%	54 hrs	Site Engineer, Vehicle Expense	
Concrete Pouring	Aug 10 '17	Aug 15 '17	0%	27 hrs	Pile Rate	
Pile Cap Concrete	Aug 15 '17	Aug 19 '17	0%	36 hrs	Pile Rate	
Concrete Pouring	Jun 17 '17	Jun 19 '17	50%	18 hrs	Concrete Rate, Site Engineer	
Formwork Opening	Jun 20 '17	Jun 21 '17	0%	18 hrs	Site Engineer, Vehicle Expense	
Excavation	Jun 21 '17	Jul 6 '17	0%	36 hrs	Site Engineer, Tractor Trolley	
Steel Fixing	Jul 6 '17	Jul 8 '17	0%	36 hrs	Site Engineer, Vehicle Expense	
Concrete Pouring	Jul 8 '17	Jul 14 '17	0%	36 hrs	Concrete Rate, Site Engineer	

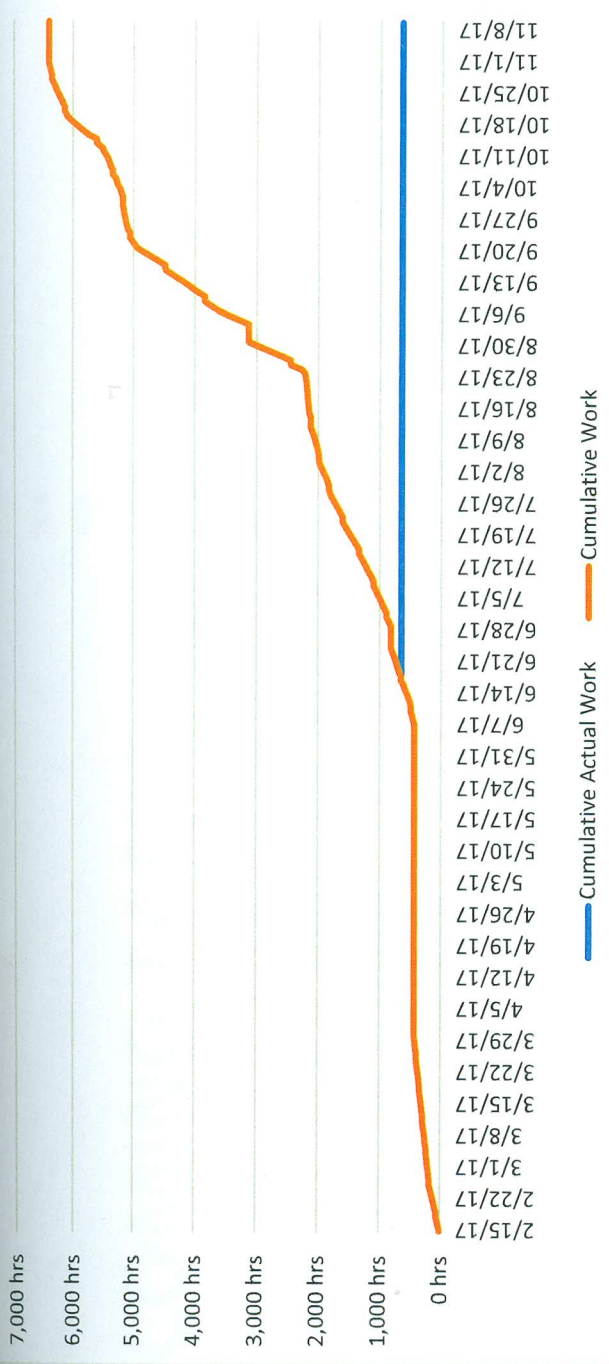
Steel Fixing	Jul 18 '17	Jul 20 '17	0%	36 hrs	Site Engineer, Vehicle Expense
Concrete Pouring	Jul 20 '17	Jul 26 '17	0%	36 hrs	Concrete Rate, Site Engineer
Formwork Opening	Jul 26 '17	Jul 27 '17	0%	18 hrs	Site Engineer, Vehicle Expense
Excavation	Jul 27 '17	Jul 29 '17	0%	36 hrs	Site Engineer, Tractor Trolley
Steel Fixing	Jul 29 '17	Aug 1 '17	0%	36 hrs	Site Engineer, Vehicle Expense
Concrete Pouring	Aug 1 '17	Aug 3 '17	0%	36 hrs	Concrete Rate, Site Engineer
Formwork Opening	Aug 3 '17	Aug 4 '17	0%	18 hrs	Site Engineer, Vehicle Expense
Conventional Foundations Completed	Jul 27 '17	Jul 27 '17	0%	0 hrs	
Material Shifting	Aug 19 '17	Aug 25 '17	0%	45 hrs	Tractor Trolley
Assembly	Aug 25 '17	Sep 7 '17	0%	504 hrs	Erection Labor[500%], Site Engineer, Vehicle Expense
Erection	Aug 25 '17	Sep 21 '17	0%	2,160 hrs	Erection Labor[1,000%], Site Engineer, Vehicle Expense
Tightening	Sep 18 '17	Sep 21 '17	0%	54 hrs	Erection Labor[200%]
Punching of Bolts	Sep 21 '17	Sep 25 '17	0%	108 hrs	Erection Labor[200%], Site

Erection of Towers Completed	AUG 19 '17	0 hrs	AUG 19 '17	0%	AUG 19 '17	0 hrs
Material Shifting	Sep 25 '17	Sep 30 '17	45 hrs	0%	Tractor Trolley	
Insulator Hoisting	Sep 30 '17	Oct 5 '17	81 hrs	0%	Erection Labor, Site Engineer, Tractor Trolley	
Machinery Shifting	Sep 25 '17	Sep 28 '17	27 hrs	0%	Tractor Trolley	
Payout	Oct 5 '17	Oct 7 '17	52 hrs	0%	Site Engineer, Stringing Labor[500%], Tractor Trolley	
Pulling of Conductor	Oct 7 '17	Oct 14 '17	172 hrs	0%	Site Engineer, Stringing Labor[1,200%], Vehicle Expense	
Pulling of OPGW	Oct 14 '17	Oct 28 '17	52 hrs	0%	Site Engineer, Stringing Labor[400%], Vehicle Expense	
Sagging	Oct 11 '17	Oct 14 '17	70 hrs	0%	Site Engineer, Stringing Labor[300%], Vehicle Expense	
Dead Ending	Oct 14 '17	Oct 28 '17	296 hrs	0%	Site Engineer, Stringing Labor[600%], Vehicle Expense	
Clipping	Oct 14 '17	Oct 20 '17	180 hrs	0%	Stringing Labor[200%], Site Engineer, Vehicle Expense	
Jumpering at Dead Tower	Oct 14 '17	Oct 26 '17	270 hrs	0%	Stringing Labor[400%], Site Engineer, Vehicle Expense	
Run off Survey	Oct 28 '17	Oct 30 '17	26 hrs	0%	Site Engineer, Stringing	

Shutdown	Oct 31 '17	Nov 1 '17	0 hrs
Bundling of Conductor	Oct 31 '17	Nov 1 '17	18 hrs
			0%
			0%
Energization of T/L	Nov 1 '17	Nov 2 '17	0 hrs
500kV Line Energized	Oct 31 '17	Nov 1 '17	0 hrs
			0%
			0%

Bundling, Site
Engineer, Vehicle
Expense

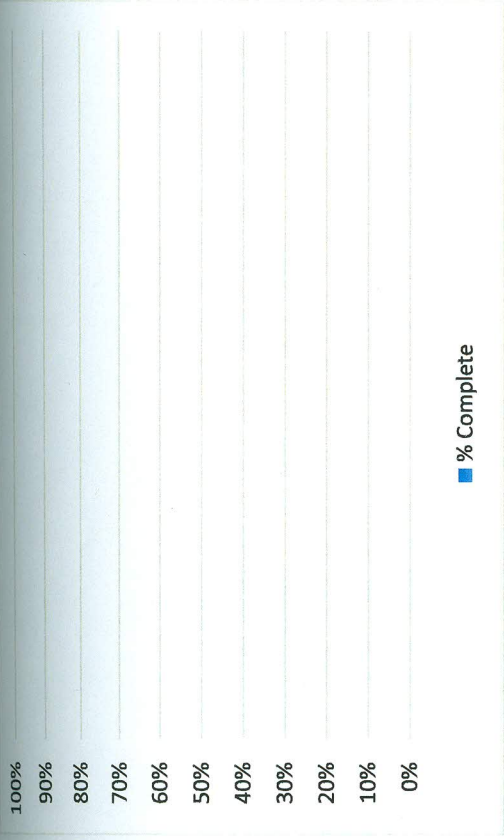
S Curve



0%

Sat 10-06-17 - Tue 27-02-18

UPCOMING TASKS



■ % Complete

TASKS STARTING SOON

Status of tasks starting in the next week

Name	Resource Names	Start	Finish	Work

MILESTONE REPORT

LATE MILESTONES

Milestones that are past due.

Name

Finish

MILESTONES UP NEXT

Milestones due in this month.

Name

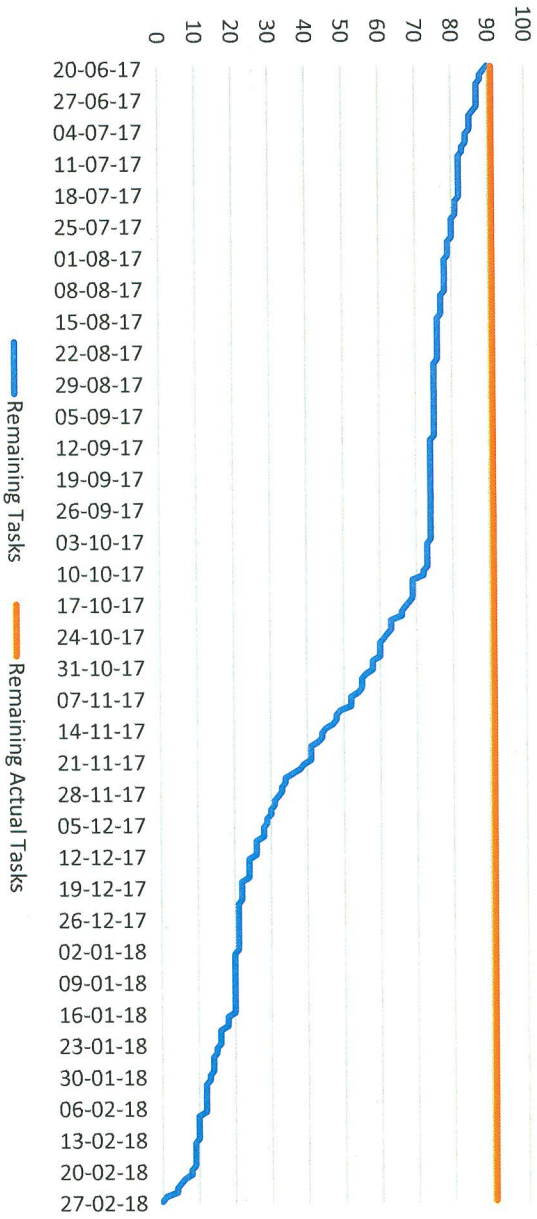
Finish

COMPLETED MILESTONES

Milestones that are 100% complete.

Name

Finish



8- Views

- i- AON
- ii- Gantt Chart
- iii- Resource Sheet
- iv- Tracking Gantt
- v- Resource usage
- vi- Task usage



105

~~106~~

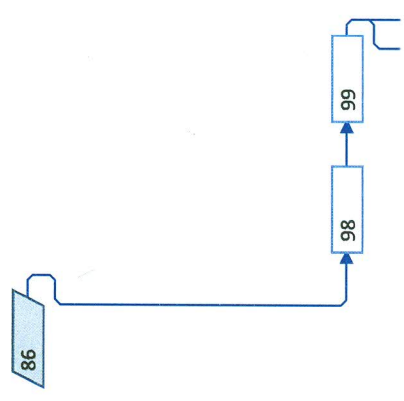
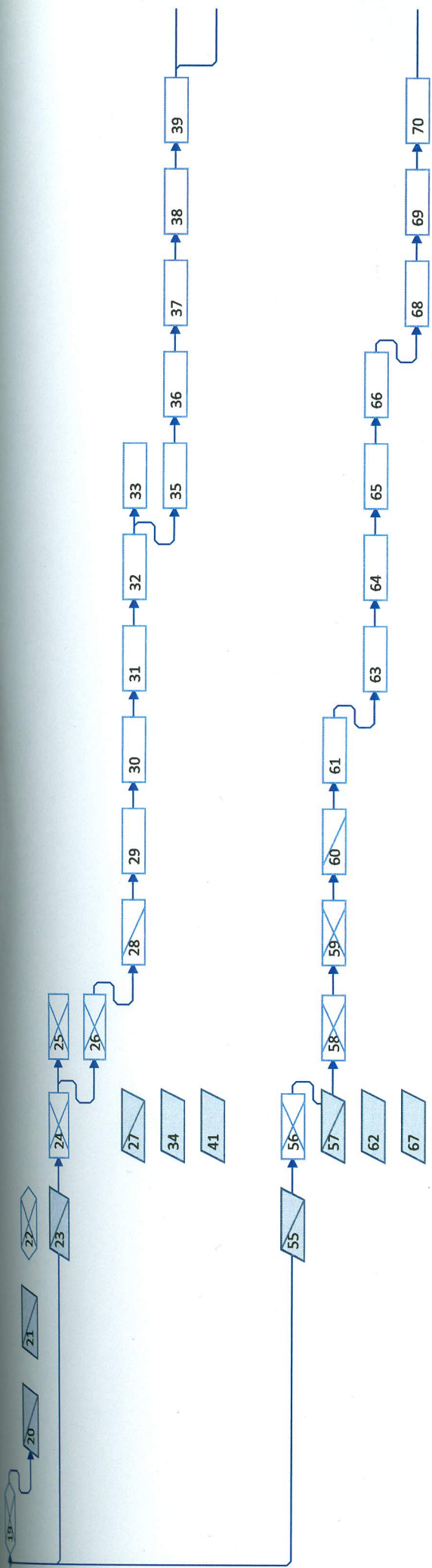
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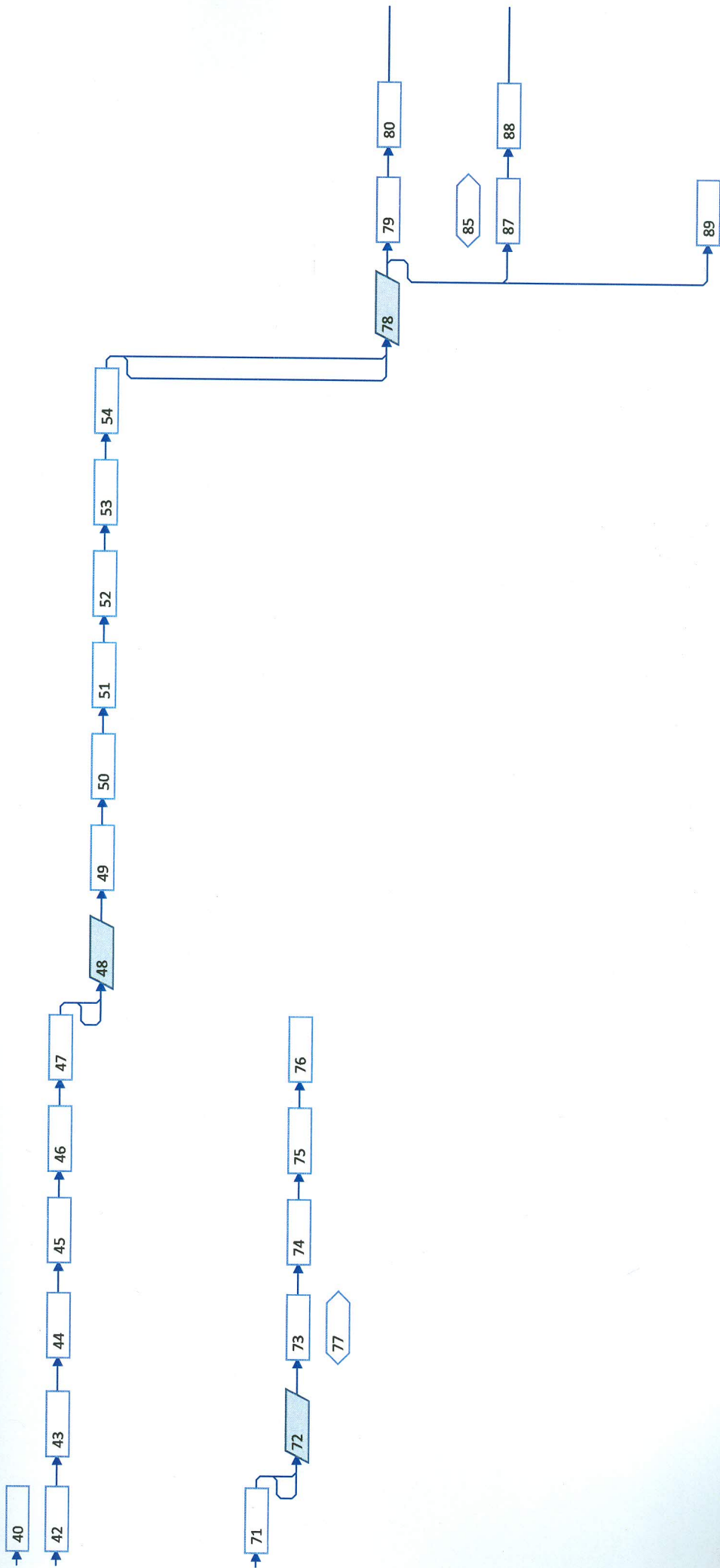
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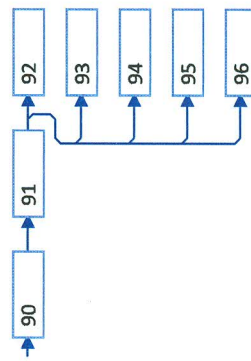
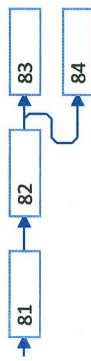
109

110

111

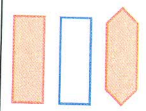




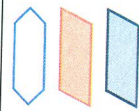


Project: Project1
Date: Jun 19 '17

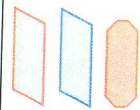
Critical
Noncritical
Critical Milestone



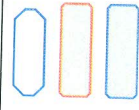
Milestone
Critical Summary
Summary



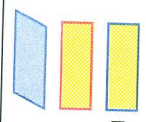
Critical Inserted
Inserted
Critical Marked



Marked
Critical External
External



Project Summary
Highlighted Critical
Highlighted Noncritical



2	1.1	Design	32 days	Tue 20-06-17	Wed 02-08-17
14	1.2	Supply	56.33 days	Wed 02-08-17	Thu 12-10-17
20	1.3	Installation	112 days	Thu 12-10-17	Thu 22-02-18
21	1.3.1	Foundations	56 days	Thu 12-10-17	Mon 18-12-17
78	1.3.2	Erection	28 days	Mon 18-12-17	Sat 20-01-18
79	1.3.2.1	Material Shifting	5 days	Tue 19-12-17	Sat 23-12-17
80	1.3.2.2	Assembly	8 days	Tue 26-12-17	Wed 03-01-18
81	1.3.2.3	Erection	20 days	Tue 26-12-17	Wed 17-01-18
82	1.3.2.4	Tightening	3 days	Mon 15-01-18	Wed 17-01-18
83	1.3.2.5	Punching of Bolts	3 days	Thu 18-01-18	Sat 20-01-18
84	1.3.2.6	Welding upto 8m	3 days	Thu 18-01-18	Sat 20-01-18

Project: Project1
Date: Tue 20-06-17

Task		Inactive Summary		External Tasks	
Split		Manual Task		External Milestone	
Milestone		Duration-only		Deadline	
Summary		Manual Summary Rollup		Progress	
Project Summary		Manual Summary		Manual Progress	
Inactive Task		Start-only			
Inactive Milestone		Finish-only			

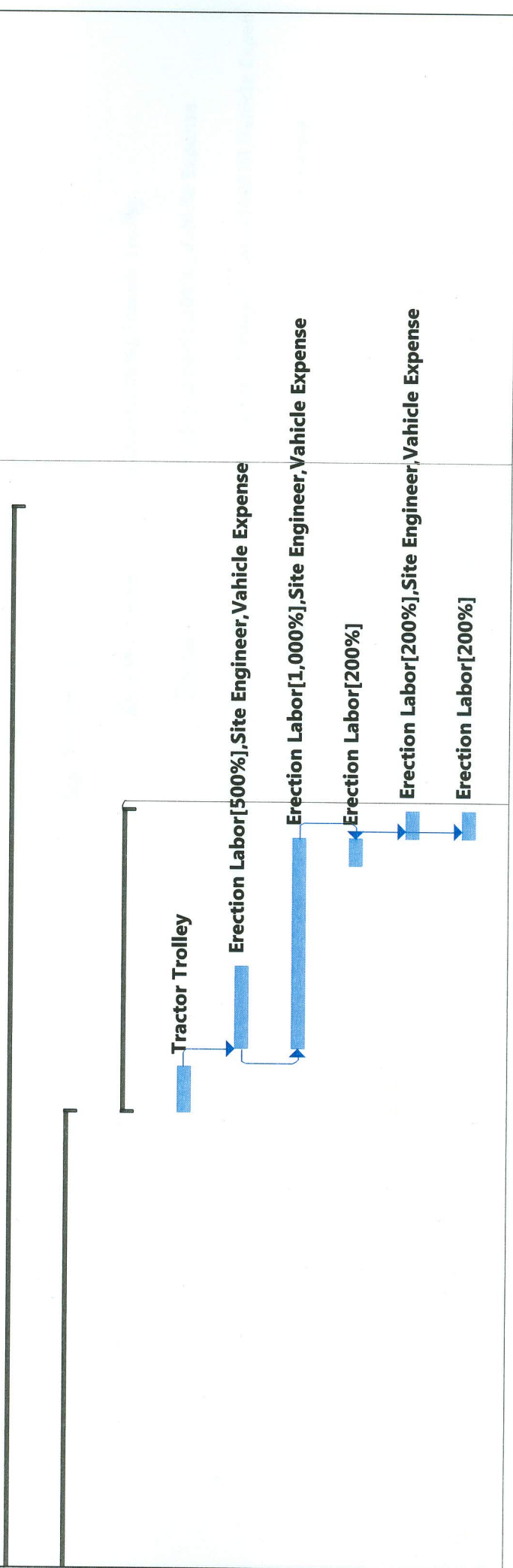
	Mode	1.3.2.7	Erection of Towers Completed	0 days	Mon 18-12-17	Mon 18-12-17
85						
86		1.3.3	Stringing	28 days	Mon 22-01-18	Thu 22-02-18
87		1.3.3.1	Material Shifting	5 days	Mon 22-01-18	Fri 26-01-18 78
88		1.3.3.2	Insulator Hoisting	3 days	Sat 27-01-18	Tue 30-01-18 87
89		1.3.3.3	Machinery Shifting	3 days	Mon 22-01-18	Wed 24-01-18 78
90		1.3.3.4	Payout	2 days	Wed 31-01-18	Thu 01-02-18 88
91		1.3.3.5	Pulling of Conductor	6 days	Fri 02-02-18	Thu 08-02-18 90
92		1.3.3.6	Pulling of OPGW	2.44 days	Fri 09-02-18	Thu 22-02-18 91
93		1.3.3.7	Sagging	3 days	Tue 06-02-18	Thu 08-02-18 91FF
94		1.3.3.8	Dead Ending	12 days	Fri 09-02-18	Thu 22-02-18 91
95		1.3.3.9	Clipping	5 days	Fri 09-02-18	Wed 14-02-18 91
96		1.3.3.10	Jumpering at Dead Tower	10 days	Fri 09-02-18	Tue 20-02-18 91

Project: Project1
Date: Tue 20-06-17

Task		Inactive Summary		External Tasks	
Split		Manual Task		External Milestone	
Milestone		Duration-only		Deadline	
Summary		Manual Summary Rollup		Progress	
Project Summary		Manual Summary		Manual Progress	
Inactive Task		Start-only			
Inactive Milestone		Finish-only			

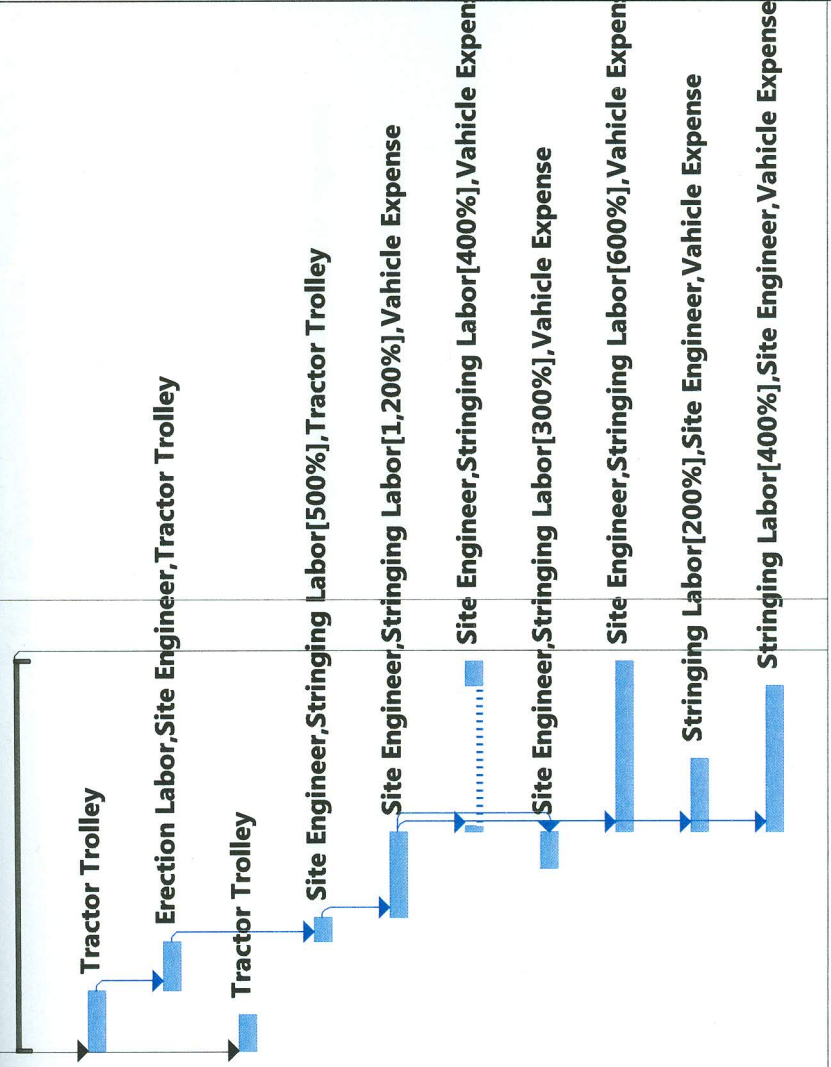


<p>Project: Project1 Date: Tue 20-06-17</p>	<table border="1"> <tr> <td>Task</td> <td></td> <td>Inactive Summary</td> <td></td> <td>External Tasks</td> <td></td> </tr> <tr> <td>Split</td> <td></td> <td>Manual Task</td> <td></td> <td>External Milestone</td> <td></td> </tr> <tr> <td>Milestone</td> <td></td> <td>Duration-only</td> <td></td> <td>Deadline</td> <td></td> </tr> <tr> <td>Summary</td> <td></td> <td>Manual Summary Rollup</td> <td></td> <td>Progress</td> <td></td> </tr> <tr> <td>Project Summary</td> <td></td> <td>Manual Summary</td> <td></td> <td>Manual Progress</td> <td></td> </tr> <tr> <td>Inactive Task</td> <td></td> <td>Start-only</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Inactive Milestone</td> <td></td> <td>Finish-only</td> <td></td> <td></td> <td></td> </tr> </table>	Task		Inactive Summary		External Tasks		Split		Manual Task		External Milestone		Milestone		Duration-only		Deadline		Summary		Manual Summary Rollup		Progress		Project Summary		Manual Summary		Manual Progress		Inactive Task		Start-only				Inactive Milestone		Finish-only			
Task		Inactive Summary		External Tasks																																							
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Project Summary		Manual Summary		Manual Progress																																							
Inactive Task		Start-only																																									
Inactive Milestone		Finish-only																																									

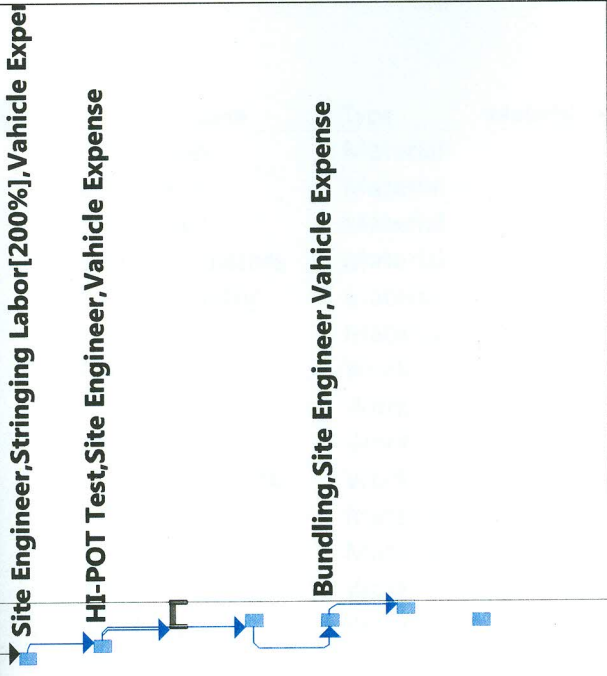


Project: Project1
Date: Tue 20-06-17

Task		Inactive Summary		External Tasks	
Split		Manual Task		External Milestone	
Milestone		Duration-only		Deadline	
Summary		Manual Summary Rollup		Progress	
Project Summary		Manual Summary		Manual Progress	
Inactive Task		Start-only			
Inactive Milestone		Finish-only			



<p>Project: Project1 Date: Tue 20-06-17</p>	<table border="1"> <tr> <td>Task</td> <td>Inactive Summary</td> <td>External Tasks</td> </tr> <tr> <td>Split</td> <td>Manual Task</td> <td>External Milestone</td> </tr> <tr> <td>Milestone</td> <td>Duration-only</td> <td>Deadline</td> </tr> <tr> <td>Summary</td> <td>Manual Summary Rollup</td> <td>Progress</td> </tr> <tr> <td>Project Summary</td> <td>Manual Summary</td> <td>Manual Progress</td> </tr> <tr> <td>Inactive Task</td> <td>Start-only</td> <td></td> </tr> <tr> <td>Inactive Milestone</td> <td>Finish-only</td> <td></td> </tr> </table>	Task	Inactive Summary	External Tasks	Split	Manual Task	External Milestone	Milestone	Duration-only	Deadline	Summary	Manual Summary Rollup	Progress	Project Summary	Manual Summary	Manual Progress	Inactive Task	Start-only		Inactive Milestone	Finish-only	
Task	Inactive Summary	External Tasks																				
Split	Manual Task	External Milestone																				
Milestone	Duration-only	Deadline																				
Summary	Manual Summary Rollup	Progress																				
Project Summary	Manual Summary	Manual Progress																				
Inactive Task	Start-only																					
Inactive Milestone	Finish-only																					



Project: Project1
Date: Tue 20-06-17

Task		Inactive Summary		External Tasks	
Split		Manual Task		External Milestone	
Milestone		Duration-only		Deadline	
Summary		Manual Summary Rollup		Progress	
Project Summary		Manual Summary		Manual Progress	
Inactive Task		Start-only			
Inactive Milestone		Finish-only			

	Resource Name	Type	Material Label	Initials	Group	Max. Units
1	DD1 Tower	Material		T1	FCC	
2	DS1 Tower	Material		T2	FCC	
3	JKD Tower	Material		T3	FCC	
4	160KN Insulators	Material		I	FCC	
5	82KN Insulator	Material		I	FCC	
6	Hardware	Material		H	FCC	
7	Pile Rate	Work		P	LCC	100%
8	Concrete Rate	Work		C	LCC	100%
9	Erection Rate	Work		E	LCC	100%
10	Clearance of Site	Work		C	LCC	200%
11	ACSR Conductor	Material		A	FCC	
12	OPGW	Material		O	FCC	
13	Tractor Trolley	Work		T	Equipment	200%
14	Machinery	Work		M	Equipment	100%
15	HI-POT Test	Cost		H	Testing	
16	Bundling	Cost		B	Experties	
17	FAT Test	Cost		F	Testing	
18	Shipment	Cost		S	Transport	
19	Delievery of material	Cost		D	Transport	
20	Vehicle Expense	Work		V	Transport	200%
21	Surveyor	Work		S	Man Power	100%
22	Site Engineer	Work		S	Man Power	200%
23	Soil Investigation	Work		S		100%
24	Design Engineer	Work		D		100%
25	Erection Labor	Work		E		1,700%
26	Stringing Labor	Work		S		1,500%

Std. Rate	Ovt. Rate	Cost/Use	Accrue At	Base Calendar	Code
Rs 50,000.00			Rs 0.00 Prorated		
Rs 40,000.00			Rs 0.00 Prorated		
Rs 38,000.00			Rs 0.00 Prorated		
Rs 10,000.00			Rs 0.00 Prorated		
Rs 2,000.00			Rs 0.00 Prorated		
Rs 5,000.00			Rs 0.00 Prorated		
Rs 10,125.00/day	Rs 0.00/hr		Rs 0.00 Prorated	Standard	
Rs 15,750.00/day	Rs 0.00/hr		Rs 0.00 Prorated	Standard	
Rs 3,937.50/day	Rs 0.00/hr		Rs 0.00 Prorated	Standard	
Rs 562.50/day	Rs 0.00/hr		Rs 0.00 Prorated	Standard	
Rs 10,000.00			Rs 0.00 Prorated		
Rs 2,000.00			Rs 0.00 Prorated		
Rs 281.25/day	Rs 0.00/hr		Rs 0.00 Prorated	Standard	
Rs 225.00/day	Rs 0.00/hr		Rs 0.00 Prorated	Standard	
			Prorated		
			Prorated		
			Prorated		
			Prorated		
			Prorated		
Rs 33.75/day	Rs 0.00/hr		Rs 0.00 Prorated	Standard	
Rs 22.50/day	Rs 0.00/hr		Rs 0.00 Prorated	Standard	
Rs 33.75/day	Rs 0.00/hr		Rs 0.00 Prorated	Standard	
Rs 0.00/hr	Rs 0.00/hr		Rs 0.00 Prorated	Standard	
Rs 112.50/day	Rs 0.00/hr		Rs 0.00 Prorated	Standard	
Rs 56.25/day	Rs 0.00/hr		Rs 0.00 Prorated	Standard	
Rs 0.00/hr	Rs 0.00/hr		Rs 0.00 Prorated	Standard	

















ID	Task Mode	WBS	Task Name	Duration	Start	Finish	Predecessor/CV
1		1	Construction of 500kV Transmission Lin	212.33 days	Sat 10-06-17	Tue 27-02-18	Rs 0.00
2		1.1	Design	32 days	Tue 20-06-17	Wed 02-08-17	Rs 0.00
14		1.2	Supply	56.33 days	Wed 02-08-17	Thu 12-10-17	Rs 0.00
20		1.3	Installation	112 days	Thu 12-10-17	Thu 22-02-18	19
21		1.3.1	Foundations	56 days	Thu 12-10-17	Mon 18-12-17	Rs 0.00
78		1.3.2	Erection	28 days	Mon 18-12-17	Sat 20-01-18	54
79		1.3.2.1	Material Shifting	5 days	Tue 19-12-17	Sat 23-12-17	54
80		1.3.2.2	Assembly	8 days	Tue 26-12-17	Wed 03-01-18	79
81		1.3.2.3	Erection	20 days	Tue 26-12-17	Wed 17-01-18	80SS
82		1.3.2.4	Tightening	3 days	Mon 15-01-18	Wed 17-01-18	81FF
83		1.3.2.5	Punching of Bolts	3 days	Thu 18-01-18	Sat 20-01-18	82
84		1.3.2.6	Welding upto 8m	3 days	Thu 18-01-18	Sat 20-01-18	82
85		1.3.2.7	Erection of Towers Completed	0 days	Mon 18-12-17	Mon 18-12-17	Rs 0.00
86		1.3.3	Stringing	28 days	Mon 22-01-18	Thu 22-02-18	Rs 0.00
87		1.3.3.1	Material Shifting	5 days	Mon 22-01-18	Fri 26-01-18	78
88		1.3.3.2	Insulator Hoisting	3 days	Sat 27-01-18	Tue 30-01-18	87
89		1.3.3.3	Machinery Shifting	3 days	Mon 22-01-18	Wed 24-01-18	78
90		1.3.3.4	Payout	2 days	Wed 31-01-18	Thu 01-02-18	88
91		1.3.3.5	Pulling of Conductor	6 days	Fri 02-02-18	Thu 08-02-18	90
92		1.3.3.6	Pulling of OPGW	2.44 days	Fri 09-02-18	Thu 22-02-18	91
93		1.3.3.7	Sagging	3 days	Tue 06-02-18	Thu 08-02-18	91FF
94		1.3.3.8	Dead Ending	12 days	Fri 09-02-18	Thu 22-02-18	91


















Critical		Manual Task		Baseline Milestone		External Tasks	
Critical Split		Start-only		Milestone		External Milestone	
Critical Progress		Finish-only		Summary Progress		Inactive Task	
Task		Duration-only		Summary		Inactive Milestone	
Split		Baseline		Manual Summary		Inactive Summary	
Task Progress		Baseline Split		Project Summary		Deadline	

ID	Task Mode	WBS	Task Name	Duration	Start	Finish	Predecessor (CV)
95		1.3.3.9	Clipping	5 days	Fri 09-02-18	Wed 14-02-18	91
96		1.3.3.10	Jumpering at Dead Tower	10 days	Fri 09-02-18	Tue 20-02-18	91
97		1.4	Testing	2 days	Fri 23-02-18	Sat 24-02-18	Rs 0.00
98		1.4.1	Run off Survey	1 day	Fri 23-02-18	Fri 23-02-18	86
99		1.4.2	Hi-Pot Testing	1 day	Sat 24-02-18	Sat 24-02-18	98
100		1.5	Commissioning	2 days	Mon 26-02-18	Tue 27-02-18	Rs 0.00
101		1.5.1	Shutdown	1 day	Mon 26-02-18	Mon 26-02-18	99
102		1.5.2	Bundling of Conductor	1 day	Mon 26-02-18	Mon 26-02-18	101SS
103		1.5.3	Energization of T/L	1 day	Tue 27-02-18	Tue 27-02-18	102
104		1.5.4	500kV Line Energized	1 day	Mon 26-02-18	Mon 26-02-18	Rs 0.00
105		1.6	Progress Review Meeting	121.33 days	Sat 10-06-17	Fri 10-11-17	Rs 0.00

Critical		Manual Task		Baseline Milestone		External Tasks	
Critical Split		Start-only		Milestone		External Milestone	
Critical Progress		Finish-only		Summary Progress		Inactive Task	
Task		Duration-only		Summary		Inactive Milestone	
Split		Baseline		Manual Summary		Inactive Summary	
Task Progress		Baseline Split		Project Summary		Deadline	

	Unassigned	0 hrs Work
1	DD1 Tower	0 Work
2	DS1 Tower	0 Work
3	JKD Tower	0 Work
4	160KN Insulators	0 Work
5	82KN Insulator	0 Work
6	Hardware	0 Work
7	Pile Rate	216 hrs Work
8	Concrete Rate	72 hrs Work
9	Erection Rate	0 hrs Work
10	Clearance of Site	81 hrs Work
11	ACSR Conductor	0 Work
12	OPGW	0 Work
13	Tractor Trolley	288 hrs Work
14	Machinery	0 hrs Work
15	HI-POT Test	Work
16	Bundling	Work

1									
2		Design	360 hrs32 days	Tue 20-06-17	Wed 02-08-17	Tue 27-02-18	Work		
14		Supply	0 hrs56.33 days	Wed 02-08-17	Thu 12-10-17	Work			
20		Installation	5,907 hrs112 days	Thu 12-10-17	Thu 22-02-18	Work			
21		Foundations	1,737 hrs56 days	Thu 12-10-17	Mon 18-12-17	Work			
78		Erection	2,925 hrs28 days	Mon 18-12-17	Sat 20-01-18	Work			
79		Material Shifting	45 hrs5 days	Tue 19-12-17	Sat 23-12-17	Work			
		<i>Tractor Trolley</i>	45 hrs	Tue 19-12-17	Sat 23-12-17	Work			
80		Assembly	504 hrs8 days	Tue 26-12-17	Wed 03-01-18	Work			
81		Erection	2,160 hrs20 days	Tue 26-12-17	Wed 17-01-18	Work			
82		Tightening	54 hrs3 days	Mon 15-01-18	Wed 17-01-18	Work			
83		Punching of Bolts	108 hrs3 days	Thu 18-01-18	Sat 20-01-18	Work			
84		Welding upto 8m	54 hrs3 days	Thu 18-01-18	Sat 20-01-18	Work			
85		Erection of Towers	0 hrs0 days	Mon 18-12-17	Mon 18-12-17	Work			
86		Stringing	1,245 hrs28 days	Mon 22-01-18	Thu 22-02-18	Work			
87		Material Shifting	45 hrs5 days	Mon 22-01-18	Fri 26-01-18	Work			
88		Insulator Hoisting	81 hrs3 days	Sat 27-01-18	Tue 30-01-18	Work			

					S	S	M	T	W	T	
											Details
89		Machinery Shifting	27 hrs 3 days	Mon 22-01-18	Wed 24-01-18	Work					
90		Payout	52 hrs 2 days	Wed 31-01-18	Thu 01-02-18	Work					
91		Pulling of Conductor	172 hrs 6 days	Fri 02-02-18	Thu 08-02-18	Work					
92		Pulling of OPGW	52 hrs 2.44 days	Fri 09-02-18	Thu 22-02-18	Work					
93		Sagging	70 hrs 3 days	Tue 06-02-18	Thu 08-02-18	Work					
94		Dead Ending	296 hrs 12 days	Fri 09-02-18	Thu 22-02-18	Work					
95		Clipping	180 hrs 5 days	Fri 09-02-18	Wed 14-02-18	Work					
96		Jumpering at Dead Tower	270 hrs 10 days	Fri 09-02-18	Tue 20-02-18	Work					
97		Testing	44 hrs 2 days	Fri 23-02-18	Sat 24-02-18	Work					
98		Run off Survey	26 hrs 1 day	Fri 23-02-18	Fri 23-02-18	Work					
99		Hi-Pot Testing	18 hrs 1 day	Sat 24-02-18	Sat 24-02-18	Work					
100		Commisioning	18 hrs 2 days	Mon 26-02-18	Tue 27-02-18	Work					
101		Shutdown	0 hrs 1 day	Mon 26-02-18	Mon 26-02-18	Work					
102		Bundling of Conductor	18 hrs 1 day	Mon 26-02-18	Mon 26-02-18	Work					
103		Energization of T/L	0 hrs 1 day	Tue 27-02-18	Tue 27-02-18	Work					
104		500kV Line Energizec	0 hrs 1 day	Mon 26-02-18	Mon 26-02-18	Work					
105		Progress Review Meeting	0 hrs 121.33 days	Sat 10-06-17	Fri 10-11-17	Work					

ID	Task Name	Fixed Cost	Fixed Cost Accrual	Total Cost	Baseline	Variance	Actual	Remaining
1	Construction of 500k	Rs 0.00	Prorated 409,837.50	435,990.00	Rs 26,152.50	Rs 0.00	Rs 0.00	Rs 409,837.50
2	Design	Rs 0.00	Prorated Rs 2,745.00	Rs 3,790.00	Rs 1,045.00	Rs 0.00	Rs 0.00	Rs 2,745.00
14	Supply	Rs 0.00	Prorated Rs 0.00	Rs 330.00	(Rs 330.00)	Rs 0.00	Rs 0.00	Rs 0.00
20	Installation	Rs 0.00	Prorated 406,890.00	431,690.00	Rs 24,800.00	Rs 0.00	Rs 0.00	Rs 406,890.00
21	Foundations	Rs 0.00	Prorated 382,657.50	422,970.00	Rs 40,312.50	Rs 0.00	Rs 0.00	Rs 382,657.50
78	Erection	Rs 0.00	Prorated; 18,011.25	Rs 5,180.00	(Rs 12,831.25)	Rs 0.00	Rs 0.00	Rs 18,011.25
79	Material Shift	Rs 0.00	Prorated Rs 1,406.25	Rs 2,000.00	(Rs 593.75)	Rs 0.00	Rs 0.00	Rs 1,406.25
80	Assembly	Rs 0.00	Prorated Rs 2,790.00	Rs 620.00	Rs 2,170.00	Rs 0.00	Rs 0.00	Rs 2,790.00
81	Erection	Rs 0.00	Prorated; 12,600.00	Rs 1,120.00	Rs 11,480.00	Rs 0.00	Rs 0.00	Rs 12,600.00
82	Tightening	Rs 0.00	Prorated Rs 337.50	Rs 400.00	(Rs 62.50)	Rs 0.00	Rs 0.00	Rs 337.50
83	Punching of B	Rs 0.00	Prorated Rs 540.00	Rs 640.00	(Rs 100.00)	Rs 0.00	Rs 0.00	Rs 540.00
84	Welding upto	Rs 0.00	Prorated Rs 337.50	Rs 400.00	(Rs 62.50)	Rs 0.00	Rs 0.00	Rs 337.50
85	Erection of To	Rs 0.00	Prorated Rs 0.00	Rs 0.00	Rs 0.00	Rs 0.00	Rs 0.00	Rs 0.00
86	Stringing	Rs 0.00	Prorated Rs 6,221.25	Rs 3,540.00	Rs 2,681.25	Rs 0.00	Rs 0.00	Rs 6,221.25
87	Material Shift	Rs 0.00	Prorated Rs 1,406.25	Rs 500.00	Rs 906.25	Rs 0.00	Rs 0.00	Rs 1,406.25
88	Insulator Hois	Rs 0.00	Prorated Rs 1,113.75	Rs 660.00	Rs 453.75	Rs 0.00	Rs 0.00	Rs 1,113.75
89	Machinery Sh	Rs 0.00	Prorated Rs 843.75	Rs 500.00	Rs 343.75	Rs 0.00	Rs 0.00	Rs 843.75
90	Payout	Rs 0.00	Prorated Rs 630.00	Rs 560.00	Rs 70.00	Rs 0.00	Rs 0.00	Rs 630.00
91	Pulling of Con	Rs 0.00	Prorated Rs 405.00	Rs 480.00	(Rs 75.00)	Rs 0.00	Rs 0.00	Rs 405.00
92	Pulling of OPC	Rs 0.00	Prorated Rs 135.00	Rs 120.00	Rs 15.00	Rs 0.00	Rs 0.00	Rs 135.00
93	Sagging	Rs 0.00	Prorated Rs 202.50	Rs 120.00	Rs 82.50	Rs 0.00	Rs 0.00	Rs 202.50
94	Dead Ending	Rs 0.00	Prorated Rs 810.00	Rs 600.00	Rs 210.00	Rs 0.00	Rs 0.00	Rs 810.00

Critical		Manual Task		Baseline Milestone		External Tasks	
Critical Split		Start-only		Milestone		External Milestone	
Critical Progress		Finish-only		Summary Progress		Inactive Task	
Task		Duration-only		Summary		Inactive Milestone	
Split		Baseline		Manual Summary		Inactive Summary	
Task Progress		Baseline Split		Project Summary		Deadline	

19 Jun '17	M	T	W	T	F	S
12 Jun '17	M	T	W	T	F	S

ID	Task Name	Fixed Cost	Fixed Cost Accrual	Total Cost	Baseline	Variance	Actual	Remaining	19 Jun '17									
									F	S	S	M	T	W	T	F	S	
95	Clipping	Rs 0.00	Prorated	Rs 337.50	Rs 0.00	Rs 337.50	Rs 0.00	Rs 337.50										
96	Jumping at	Rs 0.00	Prorated	Rs 337.50	Rs 0.00	Rs 337.50	Rs 0.00	Rs 337.50										
97	Testing	Rs 0.00	Prorated	Rs 135.00	Rs 120.00	Rs 15.00	Rs 0.00	Rs 135.00										
98	Run off Survey	Rs 0.00	Prorated	Rs 67.50	Rs 60.00	Rs 7.50	Rs 0.00	Rs 67.50										
99	Hi-Pot Testing	Rs 0.00	Prorated	Rs 67.50	Rs 60.00	Rs 7.50	Rs 0.00	Rs 67.50										
100	Commissioning	Rs 0.00	Prorated	Rs 67.50	Rs 60.00	Rs 7.50	Rs 0.00	Rs 67.50										
101	Shutdown	Rs 0.00	Prorated	Rs 0.00	Rs 0.00	Rs 0.00	Rs 0.00	Rs 0.00										
102	Bundling of Conc	Rs 0.00	Prorated	Rs 67.50	Rs 60.00	Rs 7.50	Rs 0.00	Rs 67.50										
103	Energization of T	Rs 0.00	Prorated	Rs 0.00	Rs 0.00	Rs 0.00	Rs 0.00	Rs 0.00										
104	500kV Line Enerj	Rs 0.00	Prorated	Rs 0.00	Rs 0.00	Rs 0.00	Rs 0.00	Rs 0.00										
105	Progress Review N	Rs 0.00	Prorated	Rs 0.00	Rs 0.00	Rs 0.00	Rs 0.00	Rs 0.00										0%

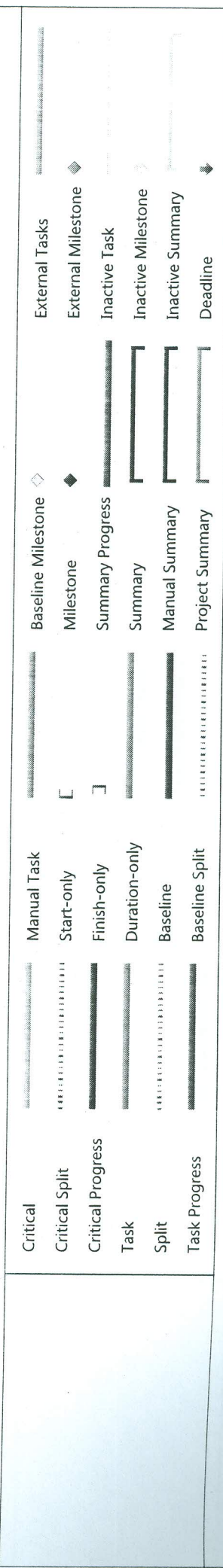
Task Name	Baseline	Actual	Remaining	External Tasks
Critical				External Milestone
Critical Split				Inactive Milestone
Critical Progress				Inactive Task
Task				Inactive Milestone
Split				Inactive Summary
Task Progress				Deadline

ID	Task Mode	WBS	Task Name	Duration	Start	Finish	Predecessor
1	1	1	Construction of 500kV Transmission Lin	212.33 days	Sat 10-06-17	Tue 27-02-18	
2	1.1	1.1	Design	32 days	Tue 20-06-17	Wed 02-08-17	
14	1.2	1.2	Supply	56.33 days	Wed 02-08-17	Thu 12-10-17	
20	1.3	1.3	Installation	112 days	Thu 12-10-17	Thu 22-02-18	19
21	1.3.1	1.3.1	Foundations	56 days	Thu 12-10-17	Mon 18-12-17	
78	1.3.2	1.3.2	Erection	28 days	Mon 18-12-17	Sat 20-01-18	54
79	1.3.2.1	1.3.2.1	Material Shifting	5 days	Tue 19-12-17	Sat 23-12-17	54
80	1.3.2.2	1.3.2.2	Assembly	8 days	Tue 26-12-17	Wed 03-01-18	79
81	1.3.2.3	1.3.2.3	Erection	20 days	Tue 26-12-17	Wed 17-01-18	80SS
82	1.3.2.4	1.3.2.4	Tightening	3 days	Mon 15-01-18	Wed 17-01-18	81FF
83	1.3.2.5	1.3.2.5	Punching of Bolts	3 days	Thu 18-01-18	Sat 20-01-18	82
84	1.3.2.6	1.3.2.6	Welding upto 8m	3 days	Thu 18-01-18	Sat 20-01-18	82
85	1.3.2.7	1.3.2.7	Erection of Towers Completed	0 days	Mon 18-12-17	Mon 18-12-17	
86	1.3.3	1.3.3	Stringing	28 days	Mon 22-01-18	Thu 22-02-18	
87	1.3.3.1	1.3.3.1	Material Shifting	5 days	Mon 22-01-18	Fri 26-01-18	78
88	1.3.3.2	1.3.3.2	Insulator Hoisting	3 days	Sat 27-01-18	Tue 30-01-18	87
89	1.3.3.3	1.3.3.3	Machinery Shifting	3 days	Mon 22-01-18	Wed 24-01-18	78
90	1.3.3.4	1.3.3.4	Payout	2 days	Wed 31-01-18	Thu 01-02-18	88
91	1.3.3.5	1.3.3.5	Pulling of Conductor	6 days	Fri 02-02-18	Thu 08-02-18	90
92	1.3.3.6	1.3.3.6	Pulling of OPGW	2.44 days	Fri 09-02-18	Thu 22-02-18	91
93	1.3.3.7	1.3.3.7	Sagging	3 days	Tue 06-02-18	Thu 08-02-18	91FF
94	1.3.3.8	1.3.3.8	Dead Ending	12 days	Fri 09-02-18	Thu 22-02-18	91

Task Name	Manual Task	Manual Task	Baseline Milestone	External Tasks
Critical	Manual Task	Manual Task	Baseline Milestone	External Tasks
Critical Split	Start-only	Start-only	Milestone	External Milestone
Critical Progress	Finish-only	Finish-only	Summary Progress	Inactive Task
Task	Duration-only	Duration-only	Summary	Inactive Milestone
Split	Baseline	Baseline	Manual Summary	Inactive Summary
Task Progress	Baseline Split	Baseline Split	Project Summary	Deadline

ID	Task Mode	WBS	Task Name	Duration	Start	Finish	Predecess
95	🔧	1.3.3.9	Clipping	5 days	Fri 09-02-18	Wed 14-02-18	91
96	🔧	1.3.3.10	Jumpering at Dead Tower	10 days	Fri 09-02-18	Tue 20-02-18	91
97	🔧	1.4	Testing	2 days	Fri 23-02-18	Sat 24-02-18	
98	🔧	1.4.1	Run off Survey	1 day	Fri 23-02-18	Fri 23-02-18	86
99	🔧	1.4.2	Hi-Pot Testing	1 day	Sat 24-02-18	Sat 24-02-18	98
100	🔧	1.5	Commissioning	2 days	Mon 26-02-18	Tue 27-02-18	99
101	🔧	1.5.1	Shutdown	1 day	Mon 26-02-18	Mon 26-02-18	99
102	🔧	1.5.2	Bundling of Conductor	1 day	Mon 26-02-18	Mon 26-02-18	101SS
103	🔧	1.5.3	Energization of T/L	1 day	Tue 27-02-18	Tue 27-02-18	102
104	🔧	1.5.4	500kV Line Energized	1 day	Mon 26-02-18	Mon 26-02-18	
105	🔄	1.6	Progress Review Meeting	121.33 days	Sat 10-06-17	Fri 10-11-17	0%

12 Jun '17
 M T W T F S S
 19 Jun
 M T W T F S S



ID	Task Mode	Task Name	Start	Finish	Baseline Start	Baseline Finish	Start Var.	Finish Var.
1		Construction of	Sat 10-06-17	Tue 27-02-18	Sat 10-06-17	Tue 21-11-17	-0.11 days	82 days
2		Design	Tue 20-06-17	Ved 02-08-17	Tue 20-06-17	Tue 08-08-17	0 days	-5.33 days
14		Supply	Ved 02-08-17	Thu 12-10-17	Thu 15-06-17	Thu 03-08-17	36 days	55 days
20		Installation	Thu 12-10-17	Thu 22-02-18	Tue 20-06-17	Thu 16-11-17	88.33 days	82 days
21		Foundation	Thu 12-10-17	Mon 18-12-17	Tue 20-06-17	Tue 03-10-17	88.33 days	64 days
78		Erection	Mon 18-12-17	Sat 20-01-18	Tue 20-06-17	Thu 19-10-17	44.33 days	78 days
79		Material	Tue 19-12-17	Sat 23-12-17	Wed 04-10-17	Thu 12-10-17	64 days	61 days
80		Assembly	Tue 26-12-17	Ved 03-01-18	Fri 13-10-17	Sat 14-10-17	61 days	67 days
81		Erection	Tue 26-12-17	Ved 17-01-18	Fri 13-10-17	Sat 14-10-17	61 days	79 days
82		Tightenin	Mon 15-01-18	Ved 17-01-18	Wed 11-10-17	Sat 14-10-17	80 days	79 days
83		Punching	Thu 18-01-18	Sat 20-01-18	Mon 16-10-17	Thu 19-10-17	79 days	78 days
84		Welding	Thu 18-01-18	Sat 20-01-18	Mon 16-10-17	Thu 19-10-17	79 days	78 days
85		Erection	Mon 18-12-17	Mon 18-12-17	Tue 20-06-17	Tue 20-06-17	44.33 days	44.33 days
86		Stringing	Mon 22-01-18	Thu 22-02-18	Fri 20-10-17	Thu 16-11-17	78 days	82 days
87		Material	Mon 22-01-18	Fri 26-01-18	Fri 20-10-17	Sat 21-10-17	78 days	81 days
88		Insulator	Sat 27-01-18	Tue 30-01-18	Mon 23-10-17	Tue 24-10-17	81 days	82 days
89		Machine	Mon 22-01-18	Ved 24-01-18	Fri 20-10-17	Sat 21-10-17	78 days	79 days
90		Payout	Ved 31-01-18	Thu 01-02-18	Wed 25-10-17	Thu 26-10-17	82 days	82 days
91		Pulling of	Fri 02-02-18	Thu 08-02-18	Fri 27-10-17	Sat 04-11-17	82 days	80 days
92		Pulling of	Fri 09-02-18	Thu 22-02-18	Mon 06-11-17	Tue 07-11-17	80 days	90 days
93		Sagging	Tue 06-02-18	Thu 08-02-18	Fri 03-11-17	Sat 04-11-17	79 days	80 days
94		Dead End	Fri 09-02-18	Thu 22-02-18	Mon 06-11-17	Thu 16-11-17	80 days	82 days

19 Jun '17

12 Jun '17

F S M T W T F S M T W T F S S

19 Jun '17

12 Jun '17

F S M T W T F S M T W T F S S

External Tasks

External Milestone

Inactive Task

Inactive Milestone

Inactive Summary

Deadline

Baseline Milestone

Milestone

Summary Progress

Summary

Manual Summary

Project Summary

ID	Task Name	Work	Baseline	Variance	Actual	Remaining	% W. Comp.	12 Jun '17							19 Jun '17							26 Jun '17						
								F	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W		
1	Construction of 500k	6,329 hrs	3,456 hrs	2,873 hrs	0 hrs	6,329 hrs	0%																					
2	Design	360 hrs	504 hrs	-144 hrs	0 hrs	360 hrs	0%																					
14	Supply	0 hrs	88 hrs	-88 hrs	0 hrs	0 hrs	0%																					
20	Installation	5,907 hrs	2,808 hrs	3,099 hrs	0 hrs	5,907 hrs	0%																					
21	Foundations	1,737 hrs	1,424 hrs	313 hrs	0 hrs	1,737 hrs	0%																					
78	Erection	2,925 hrs	624 hrs	2,301 hrs	0 hrs	2,925 hrs	0%																					
79	Material Shift	45 hrs	64 hrs	-19 hrs	0 hrs	45 hrs	0%																					
80	Assembly	504 hrs	112 hrs	392 hrs	0 hrs	504 hrs	0%																					
81	Erection	2,160 hrs	192 hrs	1,968 hrs	0 hrs	2,160 hrs	0%																					
82	Tightening	54 hrs	64 hrs	-10 hrs	0 hrs	54 hrs	0%																					
83	Punching of B	108 hrs	128 hrs	-20 hrs	0 hrs	108 hrs	0%																					
84	Welding upto	54 hrs	64 hrs	-10 hrs	0 hrs	54 hrs	0%																					
85	Erection of To	0 hrs	0 hrs	0 hrs	0 hrs	0 hrs	0%																					
86	Stringing	1,245 hrs	760 hrs	485 hrs	0 hrs	1,245 hrs	0%																					
87	Material Shift	45 hrs	16 hrs	29 hrs	0 hrs	45 hrs	0%																					
88	Insulator Hois	81 hrs	48 hrs	33 hrs	0 hrs	81 hrs	0%																					
89	Machinery Sh	27 hrs	16 hrs	11 hrs	0 hrs	27 hrs	0%																					
90	Payout	52 hrs	48 hrs	4 hrs	0 hrs	52 hrs	0%																					
91	Pulling of Con	172 hrs	192 hrs	-20 hrs	0 hrs	172 hrs	0%																					
92	Pulling of OPC	52 hrs	48 hrs	4 hrs	0 hrs	52 hrs	0%																					
93	Sagging	70 hrs	48 hrs	22 hrs	0 hrs	70 hrs	0%																					
94	Dead Ending	296 hrs	240 hrs	56 hrs	0 hrs	296 hrs	0%																					

Legend:

- Critical:** Solid orange line
- Critical Split:** Dotted orange line
- Critical Progress:** Solid red line
- Task:** Solid blue line
- Split:** Dotted blue line
- Task Progress:** Solid blue line with a vertical bar at the end
- Manual Task:** Solid blue line with a vertical bar at the end
- Start-only:** Blue line with a square bracket at the start
- Finish-only:** Blue line with a square bracket at the end
- Duration-only:** Blue line with a vertical bar at the end
- Baseline:** Dotted blue line
- Baseline Split:** Dotted blue line with a vertical bar at the end
- Baseline Milestone:** Dotted blue line with a diamond at the end
- Milestone:** Solid black line with a diamond at the end
- Summary Progress:** Solid black line with a vertical bar at the end
- Summary:** Solid black line with a vertical bar at the end
- Manual Summary:** Solid black line with a vertical bar at the end
- Project Summary:** Dotted black line with a vertical bar at the end
- External Tasks:** Solid green line
- External Milestone:** Dotted green line with a diamond at the end
- Inactive Task:** Dotted light blue line
- Inactive Milestone:** Dotted light blue line with a diamond at the end
- Inactive Summary:** Dotted light blue line with a vertical bar at the end
- Deadline:** Dotted black line with a downward arrow at the end

Reffrence:

<https://www.pmi.org>

<https://tensix.com>

<https://www.techopedia.com>

<https://www.pmi.org>

www.practicus.com

<https://en.wikipedia.org>

Report II

ORIGINALITY REPORT

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