

DYNAMICS OF PMO & EPM SERVER

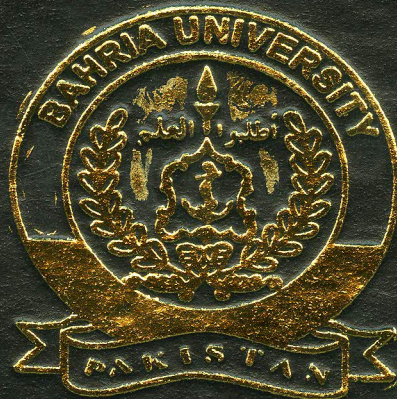
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SPRING-2016, MSPM-II MS (PROJECT MANAGEMENT)



BAHRIA UNIVERSITY LAHORE CAMPUS

SUBMITTED TO: MR. AHSAN MAQBOOL

SUBMISSION DATE: 11-JUNE-2016

AUTHORIZATION CERTIFICATE

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

It is witnessed that Mr. Saifullah Siddiqui Enrollment: 03-298152-028 and Mr. Muhammad Waqas Khan Enrollment: 03-298152-019 Class: **MSPM-II** Semester: **Spring 2016** has contacted / visited / frequently utilized our premises / participated in our real-time projects for implementing project management skills using EPM as a leading software tool.

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

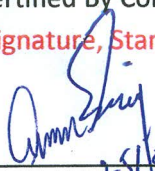
1. Punjab Information Technology Board (PITB) Biometric Devices

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

Additionally, it is noteworthy to mention that Mr. Saifullah Siddiqui and Mr. Muhammad Waqas Khan demonstrated good ethical practices, enthusiastic approach to work, task convergence capabilities, professionalism while his/her stay / connection with this organization.

Certified By Company Official:

(Signature, Stamp & Date)


25/05/2016

Mr. / Ms.

Ahmad Ali



Verified By Trainer:

(Signature & Date)

Mr. / Ms.

Plagiarism Report

Saifullah Report

ORIGINALITY REPORT

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SIMILARITY INDEX	INTERNET SOURCES	PUBLICATIONS	STUDENT PAPERS

PRIMARY SOURCES

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Chapter 1: Acknowledgment

First and foremost, we must praise the ONE, worthy of all praise, **ALLAH the ALMIGHTY**, the source of all wisdom and creation, for this immense bounties and ever-ending mercy. Our special praise to Holy Prophet **HAZRAT MUHAMMAD [Peace Be upon Him (ﷺ)]**, who is forever a torch of guidance for mankind.

The satisfaction and euphoria that accompany the successful completion of any task would be incomplete without mentioning the name of people who made it possible, whose constant guidance and encouragement crowns all efforts with our success.

During the report development of this project, the staff at Tracking World persons guiding me was very helpful and extended their valuable guidance and help whenever required for the projects which we worked on.

Firstly, we are very thankful to our respected teacher Sir. Ahsan Maqbool to provide us a quality of knowledge that impressively helps us in our careers. We learned a very efficient approach towards the management of projects as applying PMO to maintain and manage all the organizational activities and the hands-on practice on Microsoft Project 2013 will definitely give us a new expertise in our professional careers.

We are very thankful to Mr. Ahmed Ali (Sales Manager in Tracking World) for his guidance and friendly support during my stay at Tracking World sales department by sharing his vast experience and giving valuable direction to the report.

We also very grateful to Mr. Zahid Qureshi (Executive Director of Tracking World), Mr. Humayon Qaiser (Director of Tracking World), Miss Shaan-e-Tahira (Ld. Human Resource) for great cooperation and I am grateful to them.

Finally, special thanks to our parents to whom we owe a lot more than just thanks for their constant practice and encouragement.

With humble regards, we offer our deepest gratitude to all the teachers of BULC-MSPM who have brightly-lit candle showed us the right path.

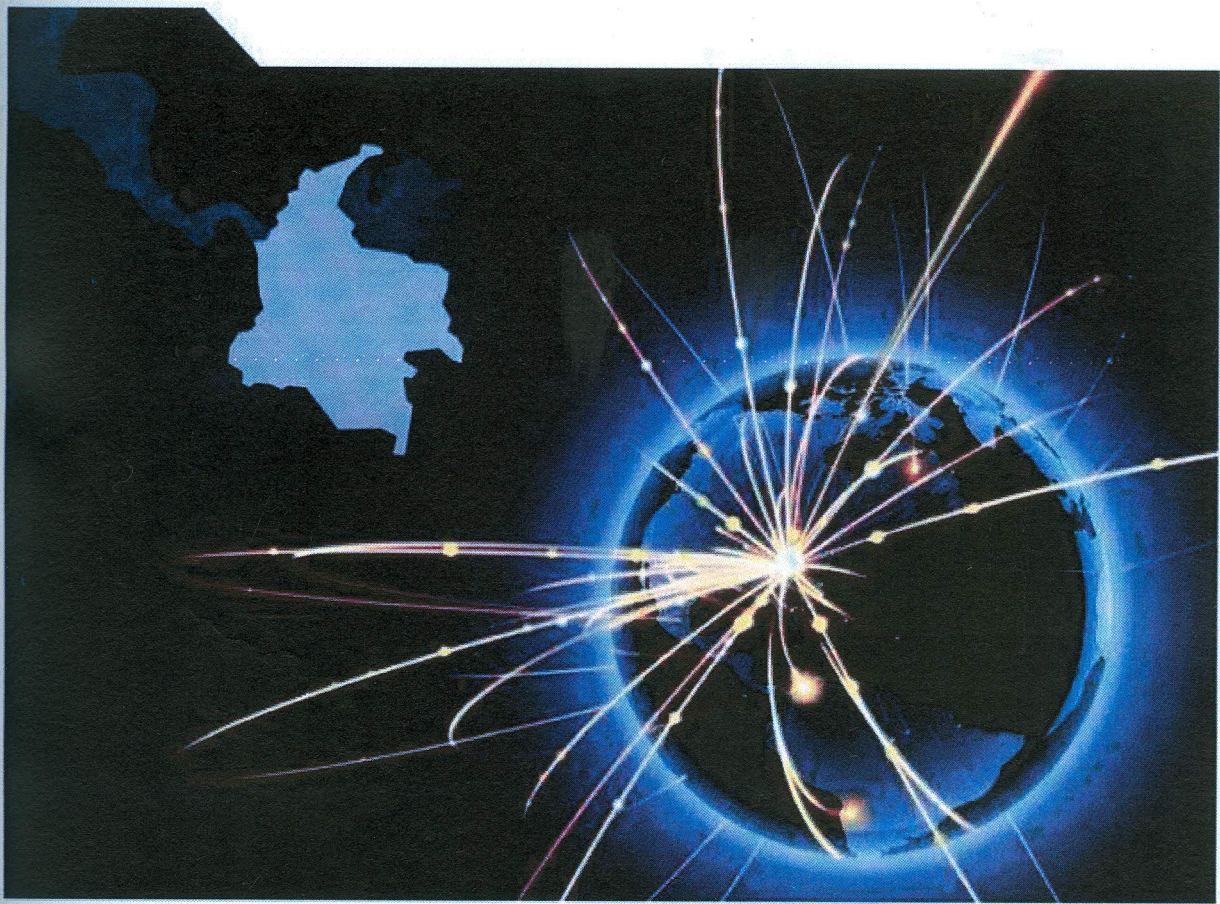
Chapter 2: Executive Summary

Tracking World is a well reputed company of providing the tracking & monitoring solutions to customers. In 2015, PITB (Punjab Information Technology Board) float a tender of purchasing the 1500 biometric devices to provide the biometric verification system to NADRA and other government organizations. Tracking World has bid on that tender and avail the contract to provide these 1500 biometric devices to PITB as a third party consultant.

PITB also demanding the services as installation of devices in PITB building Lahore and deliver the training sessions to their employees on how to use and maintain the devices efficiently.

We (Saifullah Siddiqui (03-298152-028) and Muhammad Waqas Khan (03-298152-019)) are developing the report of this project according to the PMO (Project Management Office) regulations to provide an efficient approach to manage all operational activities of not only this project but it will help Tracking World to organize their all sales projects in an efficient approach.

Telecommunication Industries in Pakistan



Scope of Telecommunication Industries in Pakistan

Chapter 3: Telecommunication Industry in Pakistan

In a short period of three decades, Telecommunication has transformed from a branch of electronics to one of the largest engineering disciplines. It now consists of many branches and Telecommunication Engineering is considered to be the largest. The reason for the rapid growth in the demand for Telecommunication is lead by the widespread use of computers in everyday of life, being connected with everyone at every time and by sitting anywhere, use your data and access your assets while you are far away from them.

The potential in the field of Telecommunication is still growing worldwide and is expected to continue for the years to come. The field is at its infancy and evolutions will continue to occur technically and directionally. Even now the key players in this industry are changing the way we think about organizing our lives with the help of computers.

To provide services like networking, internet connectivity, system support at the international level requires huge investment in setup and research, as compared to setting up a software house, which requires little investment and mostly little or no research. Providing services in fields of telecom other than software engineering generally means providing services to the local customers only. This reduces the amount of profit that can be earned through these services. The major advantage the telecommunication industry offers to a developing state like Pakistan is that most of the telecommunication projects are from international market, while all the expenses and salaries are paid at local rates, which are considerably lower as compare to other countries. Therefore in Pakistan, doubtlessly, telecommunication industry has currently the highest profit making potential.

Currently a very small amount of this potential is being utilized. Pakistan Government is trying to improve the status, by providing many incentives to telecom organizations, but still a lot has to be done if the opportunity is to be properly availed. The lack of availability of quality telecom engineers and project managers is the huge problem which is being faced by the Telecommunication industry in Pakistan. Telecom projects are easy to obtain, but much harder to deliver. A good project manager, in-depth project analysis and a proper team of telecom engineers are required to make a large project successful.

The root of the problem lies in the fact that qualified telecom professionals easily get much higher paying jobs abroad than locally. The difference in the pay scale is so much that a qualified professional can earn more in a month in US/Canada than in a year in our country. Until this difference is minimized, this problem will remain persistent and will continue to be a major obstacle in the Telecommunication industry in Pakistan.

The IT industry can play a major role in bolstering the economy of Pakistan as demonstrated by countries like India, Philippines and Singapore. Unlike other industries the Information Technology industry does not require heavy machinery like cranes and fleets to elaborate infrastructure or sophisticated tools. It is mainly dependent on capable people. The Pakistani IT industry is beginning to come of age and is strongly emerging as a global IT destination. Over one hundred thousand people are officially employed in the IT sector of Pakistan and many more are informally employed. Unfortunately the IT sector has not been given the same industry status as textile and other industries, and this has impacted its development. Pakistan has a share of only 0.9 percent of the global IT industry that is worth \$303.8 billion. If the government takes significant steps in facilitating and promoting the IT industry then it can have a profound effect on GDP as well as foreign direct investment.

Chapter 4: Detailed Company Profile

Tracking World (Pvt) Ltd is a joint venture of Webtech Wireless Inc. Canada and currently represents the product in Pakistan Region, which is operating in 40-Countries including USA, Europe, UK, Central America, UAE, KSA & Canada, having successful track record.

The solutions are implemented by fortune 500 companies and the company poses it's ranking among TOP 10 Vehicle Tracking & Fleet management Companies. Volks Wagon, Audi & Demler Crysler are installing our systems as an OEM product in their vehicles in Europe.

Tracking World is the 1st Company who introduced REAL TIME TRACKING and online WEB Access to its individuals as well as Fleet Customers and gave a concept of "ALWAYS ON" connectivity.

Our system is based on World latest GPRS technology with Satellite GPS Tracking System, through which your fleet/ vehicles can be monitored and traced in real time from anywhere even from your own desktop. This provides extreme and immaculate control over your fleet as every single vehicle can be monitored continuously. Tracking World is using branded Motorola's telemetric hardware 100% imported from Canada, IBM's bank bone and AT&T Wireless and Microsoft certified software solutions, which gives it an edge over all other competitor worldwide. Our system is also the only product certified by American and European HSE standards certified by PTCRB, FCC, IC, Emark, and UL from European Union, Canada and United States, which we feel will be the most suitable product to manage your fleet.

Tracking World is providing all features in Pakistan which are available internationally like Internet In Car, Email and 2-Way Messaging, Messaging Data Terminal, Credit Card Reader, Blue Tooth integration, Bar-Code Reader, Remote Panic Button, Multi User access through Web interface.

Client interface is very flexible and offers Date Export for your existing application and has Crystal reporting and online vehicle history is available for all customers.

Our powerful web access is available and accessible from anywhere through internet and need no base station which not only saves the cost but it also gives you flexibility and controls on your fleet.

Find nearest vehicle, vehicle maintenance scheduling and location based alerts makes our system feature more rich. The system is recognized by European, Canadian and British Govt. and Tax departments, which proves the reliability of the system, some important features specially designed and currently in use for various companies successfully.

Company Vision:

Enabling success from the realms of technology.

Company Mission:

Tracking World's Mission is to turn your imagination into reality! Track inch by inch & navigate turn by turn, Tracking World brings to you much more than just vehicle tracking. Our commitment to innovate and integrate multiple technologies together for cover-up customized needs. Tracking World's products has enables you to manage your vehicle with ultimate navigation and much more...

Who We Are?

Tracking World is a P.T.A licensed company approved of providing Vehicle Tracking and Fleet Management system in Pakistan. We are the only company operating via satellite and offering to surf/ track your vehicle/fleet through the most reliable latest GPRS technology, through which a vehicle can be monitored and tracked in real time even from your own desktop. This provides extreme and immaculate control over your fleet as every single vehicle can be monitored continuously. Tracking World is using Motorola's telemetric hardware, IBM's Back End Hardware with AT&T wireless certified software, which gives it an edge over all other competitors worldwide. Our system is also, the only product certified by American and European HSE standards certified by PTCRB, FCC, ICC, Emark, and UL from European Union, Canada and United States.

Tracking World's system not only provides monitoring services, but also helps to recover vehicles in emergency situations, as in the case of theft, snatch, panic, kidnapping, medical

emergency, car break down or robbery. Tracking World's Crisis Management Team is constantly in touch with all law enforcement agencies such as Rescue 1122, Elite Force, 15 Police, Major Hospitals, and Ambulances Services and also has its own reinforcement at your disposal 24 hours a day.

Keeping in view the immediacy of the nature of various corporate services, we assist you in monitoring your vehicles so that deliveries are made on time. As per your requirement, we can give you multiple view access, that is, vehicle can be traced by multiple people simultaneously, including corporate clients as well. You can also utilize Tracking World's services for its innovative logistics for assembly and spare parts.

Tracking World also offers complete customized fleet management solution. You can have your fleet management interface on your desktop, giving you control of checking each and every driver's performance in the fleet, the number of stops of the vehicle, speed of the vehicle at every instance, total time taken to complete the journey, total distance traveled, fuel consumption and complete vehicle maintenance scheduling.

Tracking World brings to you the option of online reports with in-house viewing and printing option for the first time in Pakistan. Now, you can view and print your customized crystal reports from your laptop or desktop, saving valuable time and hassle. Check the number of instances when the driver exceeded the pre-set speed limit, stopped at a destination for a longer period of time or was delayed due to some unavoidable monitoring. It also gives you doors lock/unlock facility, bonnet lock, and back door monitoring and battery tamper monitoring.

Tracking World has value added services providing various means of communication within the vehicles which can be planted with Message Data Terminals (MDT) through which data can be sent and received by SMS. This enables vehicles to stay in touch 24 hours with their control center and other vehicles in the fleet. Tracking World's in-car phone service provides considerable ease of communication. To avoid any misuse, outgoing calls are allowed only to the pre-defined numbers, while incoming calls are free of cost. This facilitates immediate and immaculate communication, improving efficiency as a whole.

Our Geo-Fencing Facility can be completely customized according to your requirement. If a vehicle surfing a particular zone, steps into a pre-defined No-Go area (pre-defined), you can be immediately notified either via SMS or an Email alert. In case of involuntary movement, the vehicle is remotely immobilized and will be retrieved for you. For your convenience and safety, if the vehicle goes out of the city limits without informing Tracking World, the vehicle would also be immobilized.

The liberty of viewing and controlling your mobile asset/fleet and inventory in real time through your own desktop is one of Tracking World's salient features. We also provide multiple viewing accesses for your expediency. You can even enjoy Location Based Messages conveying information of the vehicle like speed, engine heating, battery condition, fuel consumption etc. at any instance.

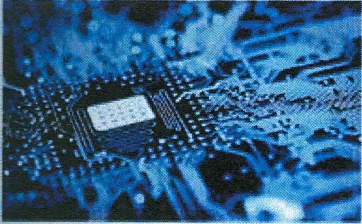
Keeping in view the nature of petroleum carriage, Tracking World has made sure that its system is in full compliance with the American and European HSE standards. As per your convenience, we offer services to curb fuel pilferage by planting high quality switches and specially designed sensors at the main hole and delivery valves. You will be duly notified online whenever any valve is opened, so that you can monitor fuel status regularly.

Tracking World has now surpassed all expectations and has introduced the option of Internet in the vehicle. You can now stay connected with the world, while traveling. We have succeeded in maintaining our position as the best mobile asset manager and technology solution provider. We are confident that our product and services can improve your business and work efficiency considerably.

Specialized Features:

1. GPRS Technology means "ALWAYS-ON"
2. Internet in your Car
3. 2-Way Messaging
4. Digital Forms and Dispatch Scheduling
5. In-Vehicle Car Phone
6. Real-Time Web Tracking
7. History Replay Feature
8. Alert Messages
9. NO-GO Zone
10. Favorite Zone
11. Over Speeding
12. Email Alerts
13. Vehicle Maintenance Scheduling
14. Enterprise Connectivity for Corporate Customers
15. Fuel Consumption Monitoring
16. Complete Fleet Management Solution
17. Various Online & In-House Report with Viewing and Printing Option
18. Auto Forwarding of Reports via Email
19. Wireless Panic Button Option
20. Celsius Temperature-Controlled Transportation
21. Driver's Performance
22. Check on Harsh Brake

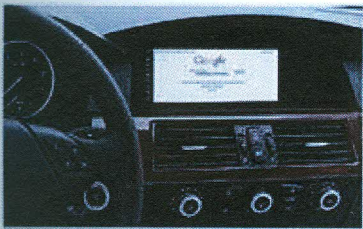
1. GPRS Technology Means "ALWAYS-ON"



Tracking world, being the market leader in Vehicle Tracking system technology, has introduced the 1st GPRS based VTS which allows you ACTUAL REAL TIME monitoring of your vehicle. This technology is unlike the old and traditional SMS based Vehicle Tracking technology which only provides passive tracking. With this new system you will be able to track your vehicle every minute.

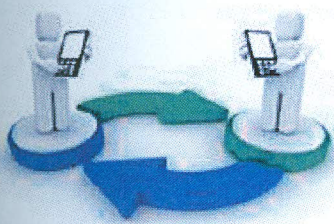
2. Internet in Your Car

Internet in your car is not a dream anymore. Now your office can be in your car! Today, Internet and quick correspondence is the backbone of your business and personal life. Tracking World provides you with the opportunity to keep in touch with your office by connecting your Laptop or PDA to the internet, while being away from your work so you can raise the efficiency of your business and work as well as become at par with the international standards of work and business communication.

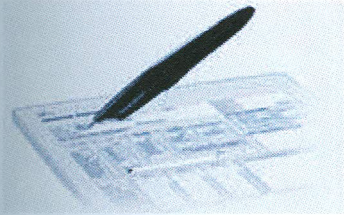


3. 2-Way Messaging

Cost effective communication is the requirement of competitive business today. Currently, communication is done through traditional method of expensive phone calls which add up to your business expense and still doesn't record any conversation and actual vehicle positions. No other VTS provider other than Tracking World provides you with in-vehicle 2-Way messaging service through your existing PDAs or Message Data Terminals except by using Tracking World's customized solutions.



4. Digital Forms and Dispatch Scheduling



The organizations dealing in transportation, distribution, cargo deliveries, security services, emergency response teams, courier companies etc are currently bound to use the traditional methods of traveling back and forth and recode handling. Now, they can all enjoy error-free and paper-less

environment as they remotely update their dispatch schedules and digital forms to their vehicles moving on road.

5. In-Vehicle Car Phone

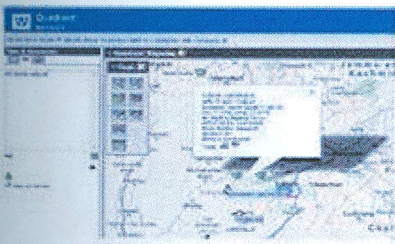
Although by having all of the above features, the use of expensive phone calls cannot be totally



eliminated and since your business is very important to Tracking World, we bring to you the option of Hands Free Car Phone, through which you can contact your vehicle at any time while your vehicle is moving, with no chances of misuse as outgoing calls can only be made to pre-defined

numbers.

6. Real-Time Web Tracking



If you are not in your vehicle, no need to worry, you can actually see your vehicle in real time with digital satellite data. You can take care of your loved ones with Tracking World's real-time web tracking solutions. With the help of Tracking World's powerful tools you can now define your

own landmarks which can refine and customize your reporting options.

7. History Replay Feature



Unlike existing VTS providers in the country, Tracking World offers the latest feature which allows you to replay the history of your vehicle, whether it is speed at a particular time, over speeding, time at certain destination, vehicle movement, excess idling, NO-GO zone monitoring, favorite zone monitoring or route deviation monitoring through

digital satellite data.

8. Alert Messages



Customized pre-set alert message can be configured for your required multi-destinations on more than one mobile numbers as per your need. You can save a lot of time, calls and hassle during your hectic daily schedule, busy hours and even at mid-night. To be always available is the soul of

Always-On technology.

9. NO-GO Zone



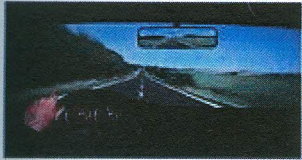
In addition to getting alert calls from Tracking World's customer care, you will also be getting SMS alerts on your mobile phone if your vehicle crosses the city limits or enters into any of your specified prohibited area for your vehicle, even within the city limits.

10. Favorite Zone



With this unique feature, your call? will be able to send SMS alerts to your mobile phones automatically and you can actually know where your car is, i.e., when it left home, arrive back home, reach your office, reach your factory, picked up your kids from school, went to social activity places etc.

11. Over Speeding



You can now prevent your kids and drivers from over speeding in city limits or on highways to save their lives and your vehicle.

12. Email Alerts



You can also monitor your vehicle while you are busy in your office, with the help of Tracking World's powerful web tools which provide you with email alerts on your desktop while working. This automatic feature will email you the vehicle's movement and alert you as per your defined destination for

each vehicle separately.

13. Vehicle Maintenance Scheduling



In today's busy life, your valuable assets i.e., your personal and business vehicles maintenance is sometime ignored. Tracking World realizes this and takes care of your assets by facilitating you to maintain your vehicle through TW's online maintenance schedule for all of your individual and business

fleet. You can monitor your vehicle's oil change, brake services and other maintenance services required time to time. You can also monitor your odometer reading through our vehicle maintenance schedule program.

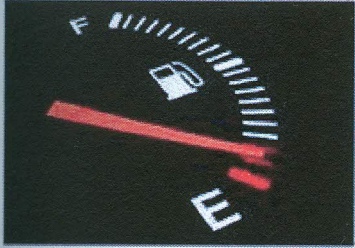
14. Enterprise Connectivity for Corporate Customers



For those quality conscious organizations who are interested in Real Time Upload of their field data, Tracking World can now integrate their existing systems and devices/PDA or barcode readers to help them to upload their field data in real time through Tracking World's intelligent online solutions which again saves your money by reducing

unnecessary phone calls and to keeps your business more competitive. For example, courier companies can get real time delivery status of their packages without waiting for their dispatcher to report back to their office or any distributor currently using PDAs or other devices i.e., scanners, barcode readers etc. For their deliveries and order taking, Tracking World can transfer their field data like orders received; delivery updates can be transferred to the business control centers in real time. We also offer you the feature of Driver's ID Validations to avoid unauthorized usage of your vehicle and to also keep record of your vehicle, especially for your commercial fleets. Goods transport companies, cab services companies can be aware of accurate information for each of their vehicles like which vehicle was driven by whom at what time.

15. Fuel Consumption Monitoring



Besides securing and tracking of your vehicle, you can now monitor the fuel consumption of your vehicle which will save pilferage in your vehicle fuel and can prevent unauthorized fuel bill claims.

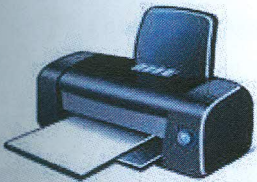
16. Complete Fleet Management Solution



Tracking World has Complete Fleet Management Solutions for your corporate needs, and can provide you with Customized Fleet Management System based on your requirement. With the help of the fleet management system you can now have the

following advantages:

17. Various Online & In-House Reports with Viewing And Printing Option



Tracking World has complete fleet management solutions for your corporate needs, and can provide you with Customized Fleet Management system based on your requirements. With the help of the fleet management system you can now have the following

advantages:

- | | |
|-------------------------------|----------------------------|
| 1. Activity report | 6. Geo-fence In/Out report |
| 2. Activity Summary report | 7. Vehicle status page |
| 3. Stop report | 8. Exception report |
| 4. Landmark In/Out report | 9. Speed report |
| 5. Landmark drive time report | 10. Ignition On/Off report |

18. Auto Forwarding Of Reports via Email



Forwarding of reports on your predefined email address on certain specified date and time is now possible! Customers will receive a system generated email report containing vehicle's Statistics on daily, weekly or monthly basis.

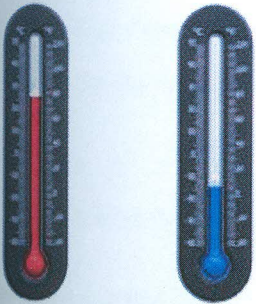
19. Wireless Panic Button Option



This is again, a unique feature through which, in case of any emergency for example kidnapping attempt or stolen car, allows customer to inform directly to TW's Crises Management and Recovery Team to take all necessary actions to secure its valued customer and recover the valuable assets with

immediate effect.

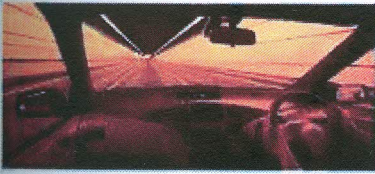
20. Cold Chain Monitoring



Our Celsius product, designed for transporting cargo under controlled temperature conditions, shows your vehicle's temperature on screen and guarantees you control over the refrigeration or heating required. Any unplanned discrepancy in temperature is therefore detected and indicated immediately. After all, it is quite understandable that strawberries are not happy traveling under the same conditions as

cosmetic products. Celsius is a gauge of outstanding quality control. Now, there's nothing to prevent you from delivering ice cream from Karachi to Peshawar.

21. Drivers Performance

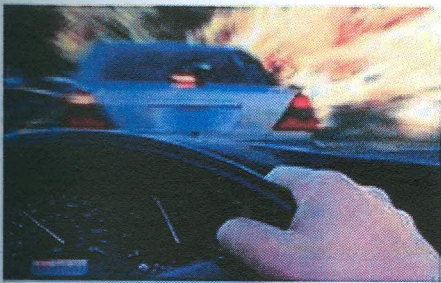


Tracking World can help you to evaluate the performance of all your drivers in your fleet by providing you with complete details about measured travel time, distance, speeding and stop times etc. All of Tracking World's all products can be

upgraded in future so; there is no need to worry about your investment now. Very soon you will be able to enjoy in vehicle navigation through TW telematics solutions. Other than all of the value added services mentioned, Tracking World also has the standard features available in its system like:

1. Ignition On/Off Monitoring
2. Door Lock/Unlock Monitoring
3. Bonnet/Trunk Locking
4. Remote Immobilization
5. Battery Tamper Monitor
6. Back Door Monitoring
7. Cash Box Monitoring
8. Excess Idle Monitoring
9. Call Center Service for theft incidents
10. Route deviation

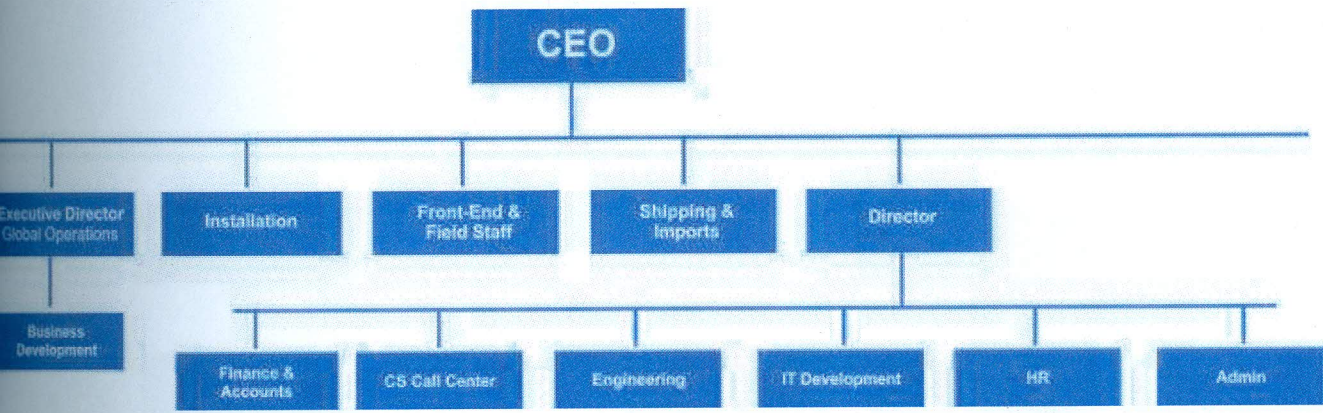
22. Harsh Brake Report

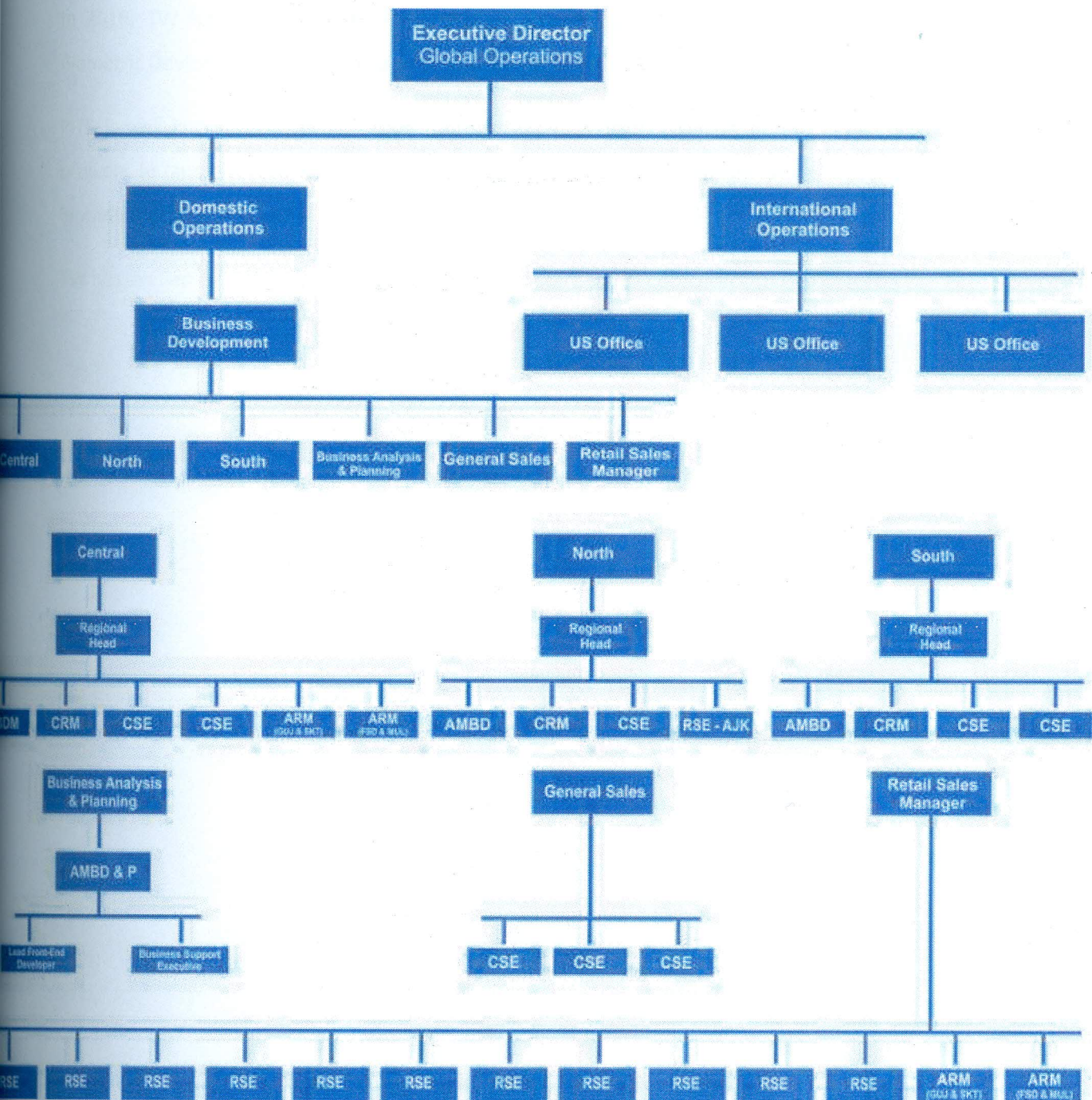


Tracking World provides a facility to secure your assets from exploitation by the drivers on route. Some vehicle drivers drive very harshly on roads and apply harsh brakes during their journey. This results in damage of your vehicles tires as well as braking mechanism, not to mention the damage it may do to the goods being

delivered.

Company Hierarchy:





Chapter 5: Scenario

In 2016, TW has contract with PITB (Punjab Information Technology Board) to sell 1500 Biometric Device with installation and maintenance services.

PITB is well known government organization that is providing IT consultancy to Government projects. In January, 2016 they float a tender to purchase 1500 biometric devices to provide the biometric access to NADRA.

TW has availed the project and provide devices as third party consultant to PITB.

Chapter 6: Why Tracking World needs PMO

As per the annual sales report of 2015, Humayon Qaiser (Director of Tracking World) realized that the sales of multiple products (in-dash navigations, trackers, biometric devices etc.) are falling down linearly from 2011. So they start analysis the weaknesses and errors that are affecting the sales.

In 2016, Humayon Qaiser analyzed that there is no organized method is initialized in the flow of sales and bidding processes.

Currently according to the sales manager (Ahmed Ali) of Tracking World, they are not following any organized format or an incorporated documentation to bid new projects and in the sales processes.

In current scenario, they are a large number of confusions and errors are occurring, i.e.:

1. Engineering Dept. is informed at the end time of execution so that they work in hurry.
2. No HOD or any other Engineering Manager is invite in meetings.
3. Price Quoting policies are hilarious, no organized procedure is initialized.
4. Variations exist in prices that offer from sales persons.
5. Corporate Customer is not interesting in TW services.
6. Sales meeting are not done professionally.
7. Hierarchy errors.
8. Product quality is not good.
9. Quotations are not meeting properly.
10. Technical Specifications are not according to the quotations.

So, as per the above mentioned errors and for providing suitable solutions for them;

We (Saifullah Siddiqui & Muhammad Waqas Khan) are going to apply a PMO (Project Management Office) in Tracking World sales department that will provide an efficient approach towards the flow of sales and biddings and allow you to incorporate every single activity that will execute during the project. For that purpose we met Ahmed Ali (Sales Manager in Tracking World) to discuss our semester project with him, Ahmed Ali is an honest person with a

passionate experience in sales department, He told us the company has some policies that will be unable to share their crucial information of sales department with us but he gave us an opportunity to study the PITB Biometric Project as per the permission of Executive Director (Mr. Zahid Qureshi). PITB Biometric Devices Project was started at 18th January 2016 and will finish on 7th November of 2016 as per the planned schedule.

So on 25th of May 2016, we met again with Ahmed Ali to get the information regarding the project, and start working on it.

Chapter 7: Project Management Office (PMO)

1. Introduction:

PMO will propose an efficient approach towards the sales and bidding for new projects. Every activity and information that is provided by the customer will be noted down electronically. Sales persons have to follow the rules and regulations that will be initialized from the PMO. It will help the organization to follow up the queries of customers and organize the sales processes efficiently.

For applying the PMO on PITB Biometric Project, we develop a checklist (to-do) of deliverables that is:

1.1 Work Breakdown Structure (Work packages, Activities, Relationships of activities)

1.2 Milestone List

1.3 Network Diagram

1.4 Critical Path

1.5 Project Gantt Chart

1.6 Resource Sheet

1.7 Resource Overview

1.8 Resource Over allocation Overview

1.9 Project Cost Overview

1.10 Project Cash Flow

1.11 Project Cost Overruns

1.12 Earned Value Analysis

1.13 S Curve

1.14 Critical Tasks

1.15 Milestone Report

1.16 Slipping Tasks

1.17 Late Tasks

1.18 Resource Cost Overview

1.19 Task Cost Overview

- 1.20 Burn down Dashboard
- 1.21 Project Overview Dashboard
- 1.22 Project Cost Overview Dashboard

2. Development:

Work Breakdown Structure:

WBS of all process includes from bidding process to handover the biometric devices and also include the training sessions that given to the PITB employees.

WBS is on next 3 pages:

ID	Task Name	Task Manager	Duration	Start	Finish	Actual Start	Actual End	Progress	% Complete	Total	Actual Cost	Resource Name
1	1.1	1.1.1	20.13 days	Mon 1/28/16	Mon 2/9/17	Mon 1/28/16	Mon 1/28/16	15	100%	\$61,176,112.50	\$643,691.50	Head of Engineering Department/PM of sales/Laptop/11/Printer/11/CS
2	1.1	1.1.1	14.19 days	Mon 1/28/16	Wed 2/9/16	Mon 1/28/16	Mon 1/28/16	14	100%	\$6,146,102.50	\$6,146,102.50	Head of Engineering Department/PM of sales/Laptop/11/Printer/11/CS
3	1.1.1	1.1.1.1	11.94 days	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	17	100%	\$6,120,497.50	\$6,120,497.50	Head of Engineering Department/PM of sales/Laptop/11/Printer/11/CS
4	1.1.1.1	1.1.1.1.1	0.69 days	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	16	100%	\$6,187,150	\$6,187,150	Head of Engineering Department/PM of sales/Laptop/11/Printer/11/CS
5	1.1.1.1.1	1.1.1.1.1.1	0.3 hrs	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	15	100%	\$6,160,00	\$6,160,00	Head of Engineering Department/PM of sales/Laptop/11/Printer/11/CS
6	1.1.1.1.1.1	1.1.1.1.1.1.1	0.3 hrs	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	14	100%	\$6,142,50	\$6,142,50	Head of Engineering Department/PM of sales/Laptop/11/Printer/11/CS
7	1.1.1.1.1.1.1	1.1.1.1.1.1.1.1	0.3 hrs	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	13	100%	\$6,125,00	\$6,125,00	Head of Engineering Department/PM of sales/Laptop/11/Printer/11/CS
8	1.1.1.1.1.1.1.1	1.1.1.1.1.1.1.1.1	0.3 hrs	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	12	100%	\$6,107,50	\$6,107,50	Head of Engineering Department/PM of sales/Laptop/11/Printer/11/CS
9	1.1.1.1.1.1.1.1.1	1.1.1.1.1.1.1.1.1.1	0.3 hrs	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	11	100%	\$6,090,00	\$6,090,00	Head of Engineering Department/PM of sales/Laptop/11/Printer/11/CS
10	1.1.1.1.1.1.1.1.1.1	1.1.1.1.1.1.1.1.1.1.1	0.3 hrs	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	10	100%	\$6,072,50	\$6,072,50	Head of Engineering Department/PM of sales/Laptop/11/Printer/11/CS
11	1.1.1.1.1.1.1.1.1.1.1	1.1.1.1.1.1.1.1.1.1.1.1	0.3 hrs	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	9	100%	\$6,055,00	\$6,055,00	Head of Engineering Department/PM of sales/Laptop/11/Printer/11/CS
12	1.1.1.1.1.1.1.1.1.1.1.1	1.1.1.1.1.1.1.1.1.1.1.1.1	0.3 hrs	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	8	100%	\$6,037,50	\$6,037,50	Head of Engineering Department/PM of sales/Laptop/11/Printer/11/CS
13	1.1.1.1.1.1.1.1.1.1.1.1.1	1.1.1.1.1.1.1.1.1.1.1.1.1.1	0.3 hrs	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	7	100%	\$6,020,00	\$6,020,00	Head of Engineering Department/PM of sales/Laptop/11/Printer/11/CS
14	1.1.1.1.1.1.1.1.1.1.1.1.1.1	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	0.3 hrs	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	6	100%	\$6,002,50	\$6,002,50	Head of Engineering Department/PM of sales/Laptop/11/Printer/11/CS
15	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	0.3 hrs	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	5	100%	\$5,985,00	\$5,985,00	Head of Engineering Department/PM of sales/Laptop/11/Printer/11/CS
16	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	0.3 hrs	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	4	100%	\$5,967,50	\$5,967,50	Head of Engineering Department/PM of sales/Laptop/11/Printer/11/CS
17	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	0.3 hrs	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	3	100%	\$5,950,00	\$5,950,00	Head of Engineering Department/PM of sales/Laptop/11/Printer/11/CS
18	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	0.3 hrs	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	2	100%	\$5,932,50	\$5,932,50	Head of Engineering Department/PM of sales/Laptop/11/Printer/11/CS
19	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	0.3 hrs	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	1	100%	\$5,915,00	\$5,915,00	Head of Engineering Department/PM of sales/Laptop/11/Printer/11/CS
20	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	1.1	0.3 hrs	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	0	100%	\$5,897,50	\$5,897,50	Head of Engineering Department/PM of sales/Laptop/11/Printer/11/CS
21	1.1	1.1	0.3 hrs	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	-1	100%	\$5,880,00	\$5,880,00	Head of Engineering Department/PM of sales/Laptop/11/Printer/11/CS
22	1.1	1.1	0.3 hrs	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	-2	100%	\$5,862,50	\$5,862,50	Head of Engineering Department/PM of sales/Laptop/11/Printer/11/CS
23	1.1	1.1	0.3 hrs	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	-3	100%	\$5,845,00	\$5,845,00	Head of Engineering Department/PM of sales/Laptop/11/Printer/11/CS
24	1.1	1.1	0.3 hrs	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	-4	100%	\$5,827,50	\$5,827,50	Head of Engineering Department/PM of sales/Laptop/11/Printer/11/CS
25	1.1	1.1	0.3 hrs	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	-5	100%	\$5,810,00	\$5,810,00	Head of Engineering Department/PM of sales/Laptop/11/Printer/11/CS
26	1.1	1.1	0.3 hrs	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	-6	100%	\$5,792,50	\$5,792,50	Head of Engineering Department/PM of sales/Laptop/11/Printer/11/CS
27	1.1	1.1	0.3 hrs	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	-7	100%	\$5,775,00	\$5,775,00	Head of Engineering Department/PM of sales/Laptop/11/Printer/11/CS
28	1.1	1.1	0.3 hrs	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	-8	100%	\$5,757,50	\$5,757,50	Head of Engineering Department/PM of sales/Laptop/11/Printer/11/CS
29	1.1	1.1	0.3 hrs	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	-9	100%	\$5,740,00	\$5,740,00	Head of Engineering Department/PM of sales/Laptop/11/Printer/11/CS
30	1.1	1.1	0.3 hrs	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	-10	100%	\$5,722,50	\$5,722,50	Head of Engineering Department/PM of sales/Laptop/11/Printer/11/CS
31	1.1	1.1	0.3 hrs	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	-11	100%	\$5,705,00	\$5,705,00	Head of Engineering Department/PM of sales/Laptop/11/Printer/11/CS
32	1.1	1.1	0.3 hrs	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	-12	100%	\$5,687,50	\$5,687,50	Head of Engineering Department/PM of sales/Laptop/11/Printer/11/CS
33	1.1	1.1	0.3 hrs	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	-13	100%	\$5,670,00	\$5,670,00	Head of Engineering Department/PM of sales/Laptop/11/Printer/11/CS
34	1.1	1.1	0.3 hrs	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	-14	100%	\$5,652,50	\$5,652,50	Head of Engineering Department/PM of sales/Laptop/11/Printer/11/CS
35	1.1	1.1	0.3 hrs	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	-15	100%	\$5,635,00	\$5,635,00	Head of Engineering Department/PM of sales/Laptop/11/Printer/11/CS
36	1.1	1.1	0.3 hrs	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	-16	100%	\$5,617,50	\$5,617,50	Head of Engineering Department/PM of sales/Laptop/11/Printer/11/CS
37	1.1	1.1	0.3 hrs	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	-17	100%	\$5,600,00	\$5,600,00	Head of Engineering Department/PM of sales/Laptop/11/Printer/11/CS
38	1.1	1.1	0.3 hrs	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	-18	100%	\$5,582,50	\$5,582,50	Head of Engineering Department/PM of sales/Laptop/11/Printer/11/CS
39	1.1	1.1	0.3 hrs	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	-19	100%	\$5,565,00	\$5,565,00	Head of Engineering Department/PM of sales/Laptop/11/Printer/11/CS
40	1.1	1.1	0.3 hrs	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	-20	100%	\$5,547,50	\$5,547,50	Head of Engineering Department/PM of sales/Laptop/11/Printer/11/CS
41	1.1	1.1	0.3 hrs	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	-21	100%	\$5,530,00	\$5,530,00	Head of Engineering Department/PM of sales/Laptop/11/Printer/11/CS
42	1.1	1.1	0.3 hrs	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	-22	100%	\$5,512,50	\$5,512,50	Head of Engineering Department/PM of sales/Laptop/11/Printer/11/CS
43	1.1	1.1	0.3 hrs	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	-23	100%	\$5,495,00	\$5,495,00	Head of Engineering Department/PM of sales/Laptop/11/Printer/11/CS
44	1.1	1.1	0.3 hrs	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	-24	100%	\$5,477,50	\$5,477,50	Head of Engineering Department/PM of sales/Laptop/11/Printer/11/CS
45	1.1	1.1	0.3 hrs	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	-25	100%	\$5,460,00	\$5,460,00	Head of Engineering Department/PM of sales/Laptop/11/Printer/11/CS
46	1.1	1.1	0.3 hrs	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	-26	100%	\$5,442,50	\$5,442,50	Head of Engineering Department/PM of sales/Laptop/11/Printer/11/CS
47	1.1	1.1	0.3 hrs	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	-27	100%	\$5,425,00	\$5,425,00	Head of Engineering Department/PM of sales/Laptop/11/Printer/11/CS
48	1.1	1.1	0.3 hrs	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	-28	100%	\$5,407,50	\$5,407,50	Head of Engineering Department/PM of sales/Laptop/11/Printer/11/CS
49	1.1	1.1	0.3 hrs	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	Mon 1/28/16	-29	1			

ID	Task Name	Task Mode	Task ID	Duration	Start	Finish	Actual Finish	Actual Start	Predecessors	% Complete	Cost	Actual Cost	Resource Name
48	Develop Front End (Design) of Dashboard	1.4.1.1.1	1.4.1.1.1	7 days	Fri 10/14/16	Mon 10/24/16	NA	NA		0%	\$15,120.00	\$0.00	Graphic Designer Laptop04
49	Change Existing Design Colors and Branding according to requirements	1.4.1.1.1.1	1.4.1.1.1.1	3 days	Fri 10/14/16	Tue 10/18/16	NA	NA		0%	\$65,480.00	\$0.00	Graphic Designer Laptop04
50	Adding new screens and options according to requirements	1.4.1.1.2	1.4.1.1.2	4 days	Tue 10/18/16	Mon 10/24/16	NA	NA		0%	\$16,540.00	\$0.00	Graphic Designer Laptop02
51	Develop Back End (Functionality) of Dashboard	1.4.1.1.2	1.4.1.1.2	36 days	Mon 10/24/16	Tue 12/6/16	NA	NA		0%	\$185,120.00	\$0.00	Software Developer Laptop03
52	Customizing the existing dashboard functions according to requirements	1.4.1.1.2.1	1.4.1.1.2.1	12 days	Mon 10/24/16	Mon 11/7/16	NA	NA		0%	\$135,520.00	\$0.00	Software Developer Laptop03
53	Adding new features according to requirements	1.4.1.1.2.2	1.4.1.1.2.2	26 days	Mon 11/7/16	Tue 12/6/16	NA	NA		0%	\$149,600.00	\$0.00	Software Developer Laptop03
54	Getting Approval of dashboard from PMB	1.4.1.1.3	1.4.1.1.3	1 day	Fri 12/9/16	Fri 12/9/16	NA	NA		0%	\$15,400.00	\$0.00	IT Network Engineer Laptop200
55	Reporting Development	1.4.1.2	1.4.1.2	1.13 days	Fri 12/9/16	Mon 12/12/16	NA	NA		0%	\$68,660.00	\$0.00	Laptop01 Software Developer Graphic Designer Laptop01 Software Developer
56	Developing Daily Reporting	1.4.1.2.1	1.4.1.2.1	1 hr	Fri 12/9/16	Fri 12/9/16	NA	NA		0%	\$6,620.00	\$0.00	Laptop01 Software Developer Graphic Designer Laptop01 Software Developer
57	Developing Monthly Reporting	1.4.1.2.2	1.4.1.2.2	1 hr	Fri 12/9/16	Fri 12/9/16	NA	NA		0%	\$6,620.00	\$0.00	Laptop01 Software Developer Graphic Designer Laptop01 Software Developer
58	Developing Yearly Reporting	1.4.1.2.3	1.4.1.2.3	1 hr	Fri 12/9/16	Fri 12/9/16	NA	NA		0%	\$6,620.00	\$0.00	Laptop01 Software Developer Graphic Designer Laptop01 Software Developer
59	Getting Approval of Reporting Format from PMB	1.4.1.2.4	1.4.1.2.4	1 day	Mon 12/12/16	Mon 12/12/16	NA	NA		0%	\$65,600.00	\$0.00	Software Developer PM of Sales
60	Deployment	1.4.1.3.5	1.4.1.3.5	0 days	Mon 12/12/16	Mon 12/12/16	NA	NA		0%	\$40.00	\$0.00	IT Network Engineer Laptop01 Software Developer
61	Installation	1.5.1	1.5.1	12 days	Tue 11/17/16	Tue 12/6/16	NA	NA		0%	\$655,510.00	\$0.00	Engineering Tools (K&P) Hardware Tools
62	Installing devices as per the required places	1.5.1.1	1.5.1.1	8 days	Tue 11/17/16	Mon 11/28/16	NA	NA		0%	\$641,710.00	\$0.00	Installation Engineer IT Network Engineer
63	Installing user id's and profiles	1.5.1.2	1.5.1.2	2 days	Mon 11/28/16	Tue 12/6/16	NA	NA		0%	\$19,900.00	\$0.00	Installation Engineer IT Network Engineer
64	Installing required size of PRTB	1.5.1.3	1.5.1.3	2 days	Wed 11/30/16	Tue 12/6/16	NA	NA		0%	\$11,900.00	\$0.00	IT Network Engineer Laptop013 PM of Sales
65	Configuration	1.5.2	1.5.2	4 days	Tue 12/6/16	Wed 12/7/16	NA	NA		0%	\$641,790.00	\$0.00	Installation Engineer IT Network Engineer
66	Configuring biometric devices with PRTB network	1.5.2.1	1.5.2.1	2 days	Tue 12/6/16	Mon 12/5/16	NA	NA		0%	\$115,350.00	\$0.00	Installation Engineer IT Network Engineer
67	Creating user profiles to maintain the devices	1.5.2.2	1.5.2.2	2 days	Tue 12/6/16	Mon 12/5/16	NA	NA		0%	\$19,500.00	\$0.00	Installation Engineer IT Network Engineer
68	Configuring reports as required	1.5.2.3	1.5.2.3	1 day	Tue 12/6/16	Fri 12/2/16	NA	NA		0%	\$65,600.00	\$0.00	IT Network Engineer Software Developer
69	Configuring biometric devices with PRTB computers	1.5.2.4	1.5.2.4	2 days	Mon 12/5/16	Wed 12/7/16	NA	NA		0%	\$11,200.00	\$0.00	IT Network Engineer Software Developer
70	Stability Test	1.5.3	1.5.3	4 days	Wed 12/7/16	Mon 12/12/16	NA	NA		0%	\$613,580.00	\$0.00	Electrical Engineer Engineering Tools K&P Quality Assurance Engineer Software Dev
71	Checking Installed Hardware	1.5.3.1	1.5.3.1	3 days	Wed 12/7/16	Mon 12/12/16	NA	NA		0%	\$61,780.00	\$0.00	Head of Engineering Department Sales Dev
72	Checking Software and Functionality	1.5.3.2	1.5.3.2	1 day	Mon 12/12/16	Mon 12/12/16	NA	NA		0%	\$65,780.00	\$0.00	Head of Engineering Department Sales Dev
73	Hardware of Devices / Deployment and Services	1.6	1.6	3 days	Mon 12/12/16	Tue 12/13/16	NA	NA		0%	\$610,555,200.00	\$0.00	Head of Engineering Department Sales Dev
74	PRTB Staff Trainings	1.7	1.7	13 days	Mon 12/13/16	Tue 12/29/16	NA	NA		0%	\$613,580.00	\$0.00	Electrical Engineer Laptop03 Projector03
75	Session 1	1.7.1	1.7.1	3 days	Mon 12/13/16	Tue 12/20/16	NA	NA		0%	\$614,580.00	\$0.00	Electrical Engineer Laptop03 Projector03
76	Giving introduction about device	1.7.1.1	1.7.1.1	1 day	Tue 12/13/16	Fri 12/16/16	NA	NA		0%	\$62,970.00	\$0.00	Electrical Engineer Software Developer Laptop03
77	Giving Training about how to use device	1.7.1.2	1.7.1.2	1 day	Fri 12/16/16	Mon 12/19/16	NA	NA		0%	\$65,720.00	\$0.00	Electrical Engineer Software Developer Laptop03
78	Giving Training about how to install or reinstall device	1.7.1.3	1.7.1.3	1 day	Mon 12/19/16	Tue 12/20/16	NA	NA		0%	\$65,720.00	\$0.00	Electrical Engineer Software Developer Laptop03
79	Session 2	1.7.2	1.7.2	3 days	Tue 12/20/16	Tue 12/22/16	NA	NA		0%	\$613,580.00	\$0.00	Installation Engineer IT Network Engineer Laptop03 Projector03
80	Giving Training about how to configure device with network and computer	1.7.2.1	1.7.2.1	1 day	Tue 12/20/16	Wed 12/21/16	NA	NA		0%	\$64,920.00	\$0.00	Installation Engineer IT Network Engineer Laptop03 Projector03
81	Giving Training about how to maintain records in device	1.7.2.2	1.7.2.2	1 day	Wed 12/21/16	Wed 12/21/16	NA	NA		0%	\$62,970.00	\$0.00	IT Network Engineer Laptop03 Projector03
82	Giving Training about how to import and export data from device	1.7.2.3	1.7.2.3	1 day	Thu 12/22/16	Thu 12/22/16	NA	NA		0%	\$65,720.00	\$0.00	IT Network Engineer Laptop03 Projector03
83	Session 3	1.7.3	1.7.3	2 days	Thu 12/22/16	Mon 12/26/16	NA	NA		0%	\$68,900.00	\$0.00	Electrical Engineer Engineering Tools K&P Software Testing Device01
84	Giving Training about how to customize or repair hardware	1.7.3.1	1.7.3.1	1 day	Thu 12/22/16	Fri 12/23/16	NA	NA		0%	\$62,970.00	\$0.00	Laptop03 Projector03 Software Developer Laptop03 Projector03
85	Giving Training about how to customize or modify software	1.7.3.2	1.7.3.2	1 day	Fri 12/23/16	Mon 12/26/16	NA	NA		0%	\$62,980.00	\$0.00	IT Network Engineer Laptop03 Projector03
86	Session 4	1.7.4	1.7.4	3 days	Mon 12/26/16	Tue 12/27/16	NA	NA		0%	\$114,340.00	\$0.00	IT Network Engineer Laptop03 Projector03
87	Giving Training about how to use monitoring web portal	1.7.4.1	1.7.4.1	1 day	Mon 12/26/16	Tue 12/27/16	NA	NA		0%	\$60,720.00	\$0.00	IT Network Engineer Laptop03 Projector03

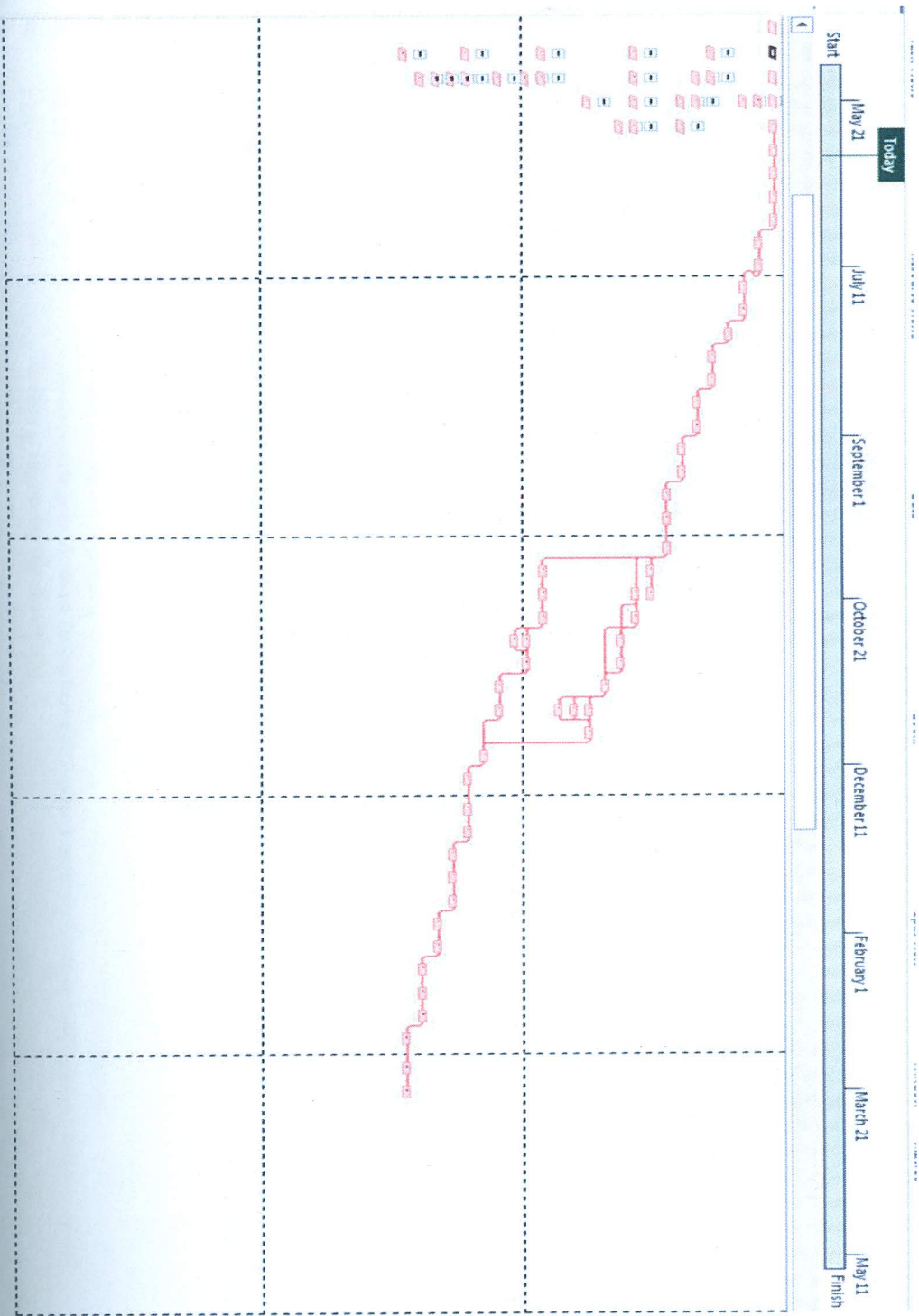
ID	Job Mode	WBS	Task Name	Duration	Start	Finish	Actual Finish	Actual Start	Predecessors	% Complete	Cost	Actual Cost	Resource Names
89	mg	1.7.4.2	Giving Training about How to use dashboard	1 day	Tue 12/27/16	Wed 12/28/16	NA	NA	88	0%	R\$5,730.00	R\$0.00	IT Network Engineer, Laptop(3), Projector(1)
90	mg	1.7.4.3	Giving Training about How to generate reports	1 day	Wed 12/28/16	Thu 12/29/16	NA	NA	89	0%	R\$2,930.00	R\$0.00	Laptop(3), Projector(3), Software Developer
91	mg	1.7.4.4	Getting Trainings feedback from PTB	0 days	Thu 12/29/16	Thu 12/29/16	NA	NA	90	0%	R\$0.00	R\$0.00	
92	mg	1.7.5	Marketing	5 days	Thu 12/15/16	Wed 12/21/16	NA	NA		0%	R\$27,370.00	R\$0.00	
93	mg	1.7.5.1	Digital Advertisement	5 days	Thu 12/15/16	Wed 12/21/16	NA	NA		0%	R\$2,970.00	R\$0.00	
94	mg	1.7.5.1.1	Developing Facebook Advertisement	3 days	Thu 12/15/16	Tue 12/20/16	NA	NA	74	0%	R\$13,750.00	R\$0.00	Graphic Designer, Laptop(25), Social Media
95	mg	1.7.5.1.2	Drafting Newsletter for Website	1 day	Tue 12/20/16	Wed 12/21/16	NA	NA	94	0%	R\$4,510.00	R\$0.00	Graphic Designer, Internet(R\$50.00), Laptop
96	mg	1.7.5.1.3	Twitting Post of Contracting b/ w TN and PTB	1 day	Wed 12/21/16	Wed 12/21/16	NA	NA	95	0%	R\$4,510.00	R\$0.00	Graphic
97	mg	1.7.5.2	Newspaper Ads	1 day	Thu 12/15/16	Fri 12/16/16	NA	NA		0%	R\$4,400.00	R\$0.00	Designer, Internet(R\$50.00), Laptop(8), Soc
98	mg	1.7.5.2.1	Giving News Papers Ad in Tang News	1 day	Thu 12/15/16	Fri 12/16/16	NA	NA	74	0%	R\$4,400.00	R\$0.00	Graphic Designer, Social Media Developer
99	mg	1.8	Monitoring & Controlling	294.13 days	Mon 1/18/16	Mon 1/9/17	NA	Mon 1/18/16		12%	R\$0.00	R\$0.00	
100	mg	1.8.1	Change Request Generating	289.88 days	Mon 1/18/16	Mon 1/9/17	NA	Mon 1/18/16		12%	R\$0.00	R\$0.00	
101	mg	1.9	Closing	8 days	Thu 12/29/16	Mon 1/9/17	NA	NA		0%	R\$47,200.00	R\$0.00	
102	mg	1.9.1	Getting Feedback from PTB	2 days	Thu 12/29/16	Mon 1/2/17	NA	NA	90.96	0%	R\$55,200.00	R\$0.00	Head of Engineering Department, Quality
103	mg	1.9.2	Adding up the Contract details to CRM	2 days	Mon 1/2/17	Tue 1/3/17	NA	NA	102	0%	R\$4,000.00	R\$0.00	Customer Relationship Officer
104	mg	1.9.3	Updating lesson learned Documents	4 days	Tue 1/3/17	Mon 1/9/17	NA	NA	102.98	0%	R\$8,000.00	R\$0.00	Customer Relationship Officer

Milestones that are mutually decided to Tracking World and PITB.

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Critical Path:

Recommended critical path of project that is design as per the instructions of Ahmed ali.



Project Gantt chart:

Project Schedule bar charts / Gantt Charts



Sat 5/21/16
Start February 11 April 1 May 21 Today July 11 September 1 October 21 December 11 Finish

Task Mode WBS May 21 July 11 September 1 October 21 December 11 February 1 March 21 May 11 July 1 August 21

30 ✓ 1.2.2.1.2 PM of sales

31 1.2.2.2

32 1.2.2.2.1

33 1.2.2.2.1.1 Developer, Laptop[150]

34 1.2.2.2.1.2 Laptop[160], Software Developer, Software Testing System[160]

35 1.2.2.2.2 Software Developer, Software Testing System[15], Head of Engineering Department

36 1.2.2.2.3 Software Developer, PM of sales

37 1.2.2.2.4 Electrical Engineer, Installation Engineer, IT Network Engineer, Software Developer

38 1.2.3 Engineering Tools Kit[200], Hardware Testing Device[200], Quality Assurance Engineer, Software Developer, Software Testing System[200], Ins

39 1.2.4 6/25

40 1.3

41 1.3.1 Electrical Engineer, Graphic Designer, Software Developer

42 1.3.2 Electrical Engineer, Graphic Designer, Software Developer

43 1.3.3 Graphic Designer, Marketing Manager

44 1.3.4 Graphic Designer

45 1.4

46 1.4.1

47 1.4.1.1

48 1.4.1.1.1

49 1.4.1.1.1.1

50 1.4.1.1.1.2

51 1.4.1.1.2

52 1.4.1.1.2.1

53 1.4.1.1.2.2

54 1.4.1.1.3

55 1.4.1.2

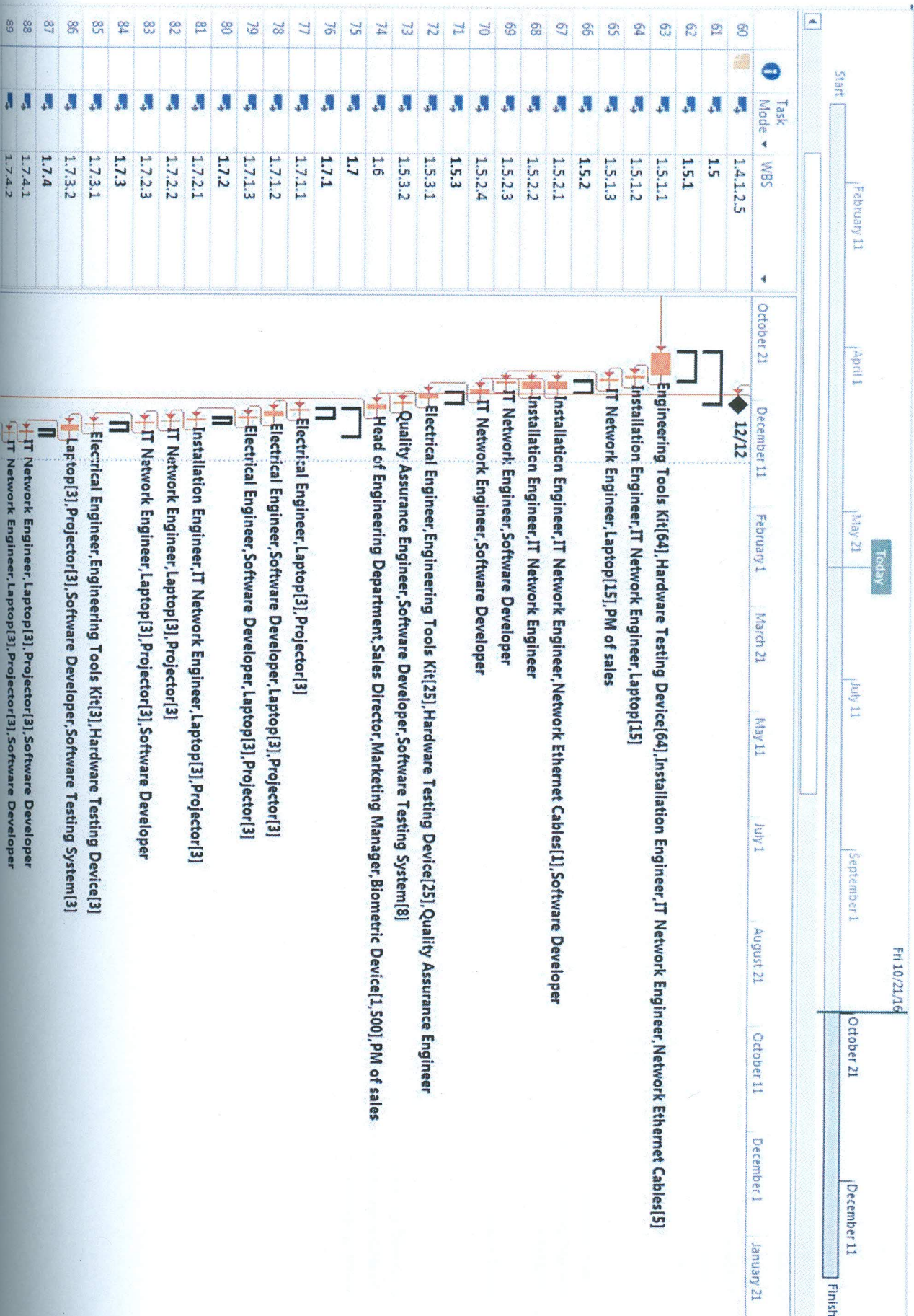
56 1.4.1.2.1

57 1.4.1.2.2

58 1.4.1.2.3

59 1.4.1.2.4

Graphic Designer, Laptop[24]
Graphic Designer, Laptop[32]
Software Developer, Laptop[96]
Electrical Engineer, Software Developer, Laptop[200]
IT Network Engineer[50%], PM of sales
Laptop[1], Software Developer, Graphic Designer
Laptop[1], Software Developer, Graphic Designer
Graphic Designer, Laptop[1], Software Developer
Software Developer, PM of sales



Start	February 11	April 1	May 21	July 11	September 1	October 21	December 11	Finish
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Project: PITB Biometric Devices Date: Tue 6/7/16			
Task		Manual Summary	
Split		Start-only	
Milestone		Finish-only	
Summary		External Tasks	
Project Summary		External Milestone	
Inactive Task		Deadline	
Inactive Milestone		Path Predecessor Milestone Task	
Inactive Summary		Path Predecessor Summary Task	
Manual Task		Path Predecessor Normal Task	
Duration-only		Progress	
Manual Summary Rollup		Manual Progress	

Resource Sheet:

Brief description of all resources that used in project.

Resource Name	Type	Material Label	Initials	Group	Max. Units	Std. Rate	Ovt. Rate	Accrue At	Base Calendar	Code
Sales Director	Work		SD		100%	Rs800.00/hr	Rs800.00/hr	Prorated	PITB	
PM of sales	Work		P		100%	Rs500.00/hr	Rs750.00/hr	Prorated	PITB	
Marketing Manager	Work		MM		100%	Rs450.00/hr	Rs500.00/hr	Prorated	PITB	
Marketing Field	Work		M		100%	Rs200.00/hr	Rs250.00/hr	Prorated	PITB	
Head of Engineering Department	Work		ENG		100%	Rs550.00/hr	Rs650.00/hr	Prorated	PITB	
Electrical Engineer	Work		EE		200%	Rs350.00/hr	Rs400.00/hr	Prorated	PITB	
Installation Engineer	Work		IE		200%	Rs250.00/hr	Rs300.00/hr	Prorated	PITB	
Software Developer	Work		DSPL		300%	Rs350.00/hr	Rs400.00/hr	Prorated	PITB	
Graphic Designer	Work		GD		200%	Rs250.00/hr	Rs300.00/hr	Prorated	PITB	
Quality Assurance Engineer	Work		QA		100%	Rs350.00/hr	Rs400.00/hr	Prorated	PITB	
IT Network Engineer	Work		IT		300%	Rs350.00/hr	Rs400.00/hr	Prorated	PITB	
Social Media Developer	Work		SMD		200%	Rs300.00/hr	Rs350.00/hr	Prorated	PITB	
Cutomer Relationship Officer	Work		CRO		100%	Rs250.00/hr	Rs350.00/hr	Prorated	PITB	
Laptop	Material		L			Rs20.00		Prorated		
Printer	Material		P			Rs5.00		Prorated		
Scanner	Material		S			Rs5.00		Prorated		
Stamp	Material		S			Rs5.00		Prorated		
Projector	Material		P			Rs20.00		Prorated		
Hardware Testing Device	Material		H			Rs20.00		Prorated		
Engineering Tools Kit	Material		E			Rs20.00		Prorated		
Software Testing System	Material		S			Rs20.00		Prorated		
Network Ethernet Cables	Material		N			Rs150.00		Prorated		
Biometric Device	Material		B			Rs7,000.00		Prorated		
TCS Services	Cost		T					Prorated		
Fuel	Cost		F					Prorated		
Internet	Cost		I					Prorated		

Page 1

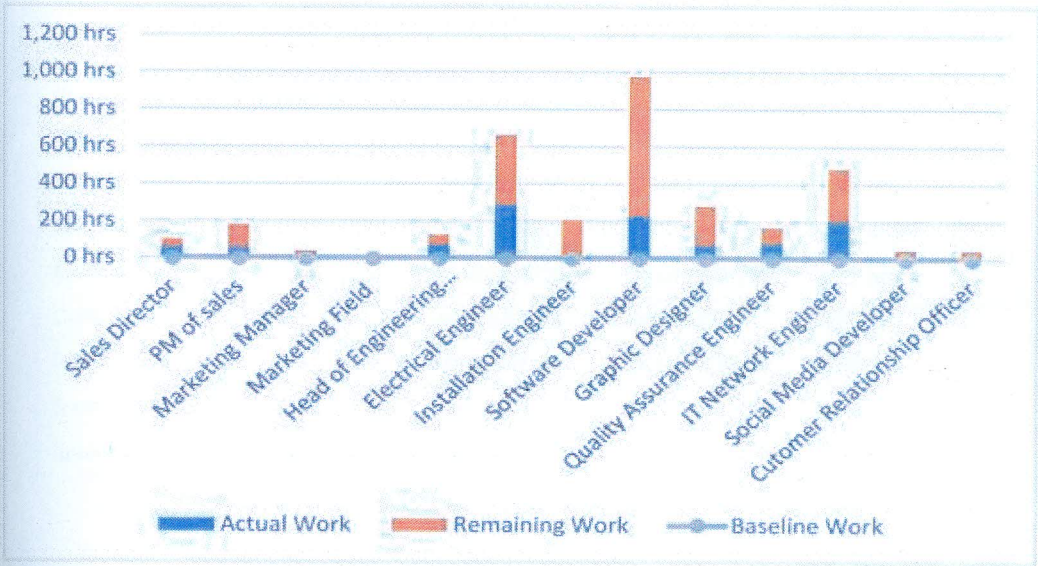
Resource Overview:

Describe all resources availability according to their working criteria.

RESOURCE OVERVIEW

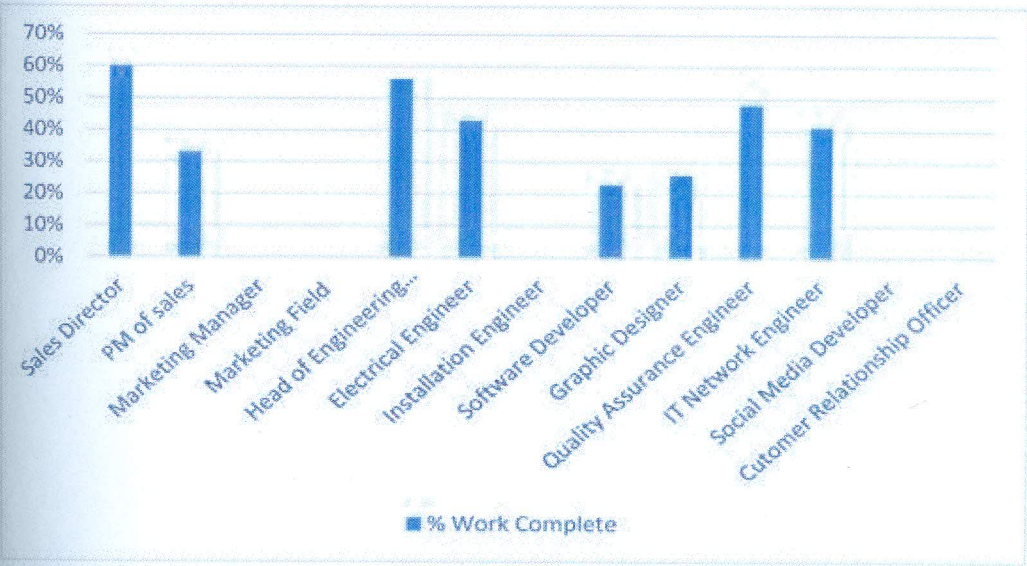
RESOURCE STATS

Work status for all work resources.



WORK STATUS

% work done by all the work resources.



RESOURCE OVERVIEW

RESOURCE STATUS

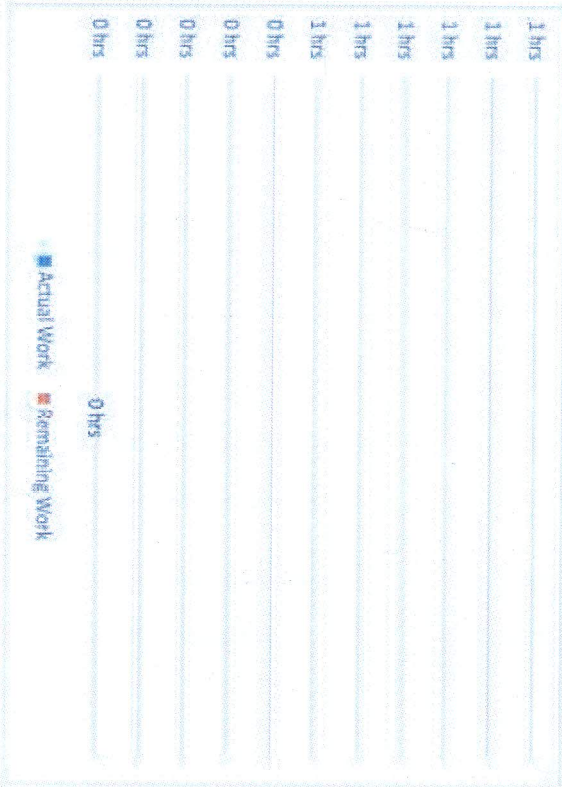
Remaining work for all work resources.

Name	Start	Finish	Remaining Work
Sales Director	Mon 1/18/16	Mon 1/2/17	40 hrs
PM of sales	Mon 1/18/16	Mon 1/2/17	120 hrs
Marketing Manager	Mon 7/4/16	Thu 12/15/16	40 hrs
Marketing Field	NA	NA	0 hrs
Head of Engineering Department	Tue 1/26/16	Mon 1/2/17	56 hrs
Electrical Engineer	Mon 1/25/16	Fri 12/23/16	376 hrs
Installation Engineer	Tue 5/24/16	Wed 12/21/16	208 hrs
Software Developer	Mon 1/25/16	Thu 12/29/16	751.4 hrs
Graphic Designer	Mon 1/18/16	Wed 12/21/16	211 hrs
Quality Assurance Engineer	Mon 1/25/16	Mon 1/2/17	88 hrs
IT Network Engineer	Wed 2/3/16	Wed 12/28/16	284 hrs
Social Media Developer	Thu 12/15/16	Wed 12/21/16	48 hrs
Customer Relationship Officer	Mon 1/2/17	Mon 1/9/17	48 hrs

OVERALLOCATED RESOURCES

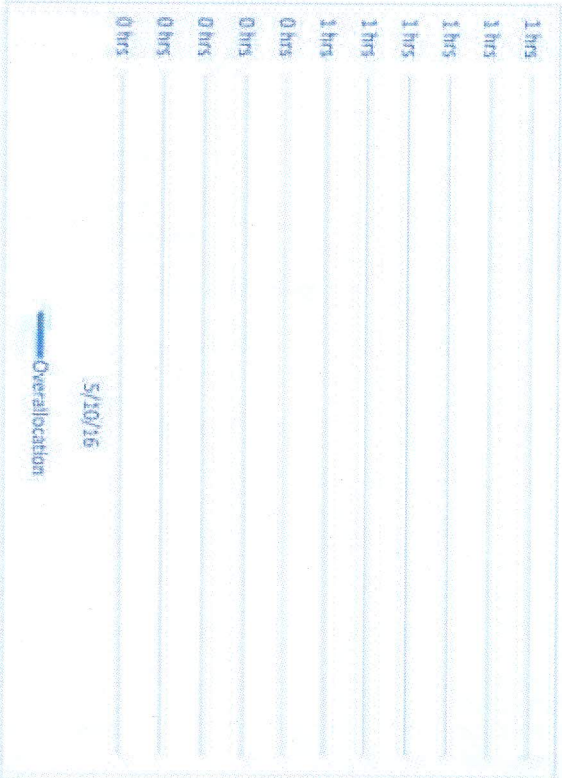
WORK STATUS

Work status for overallocated resources.



OVERALLOCATION

Surplus work assigned to overallocated resources. To resolve overallocations, use [Team Planner View](#).



Resource over allocation Overview:

Project Cost Overview:

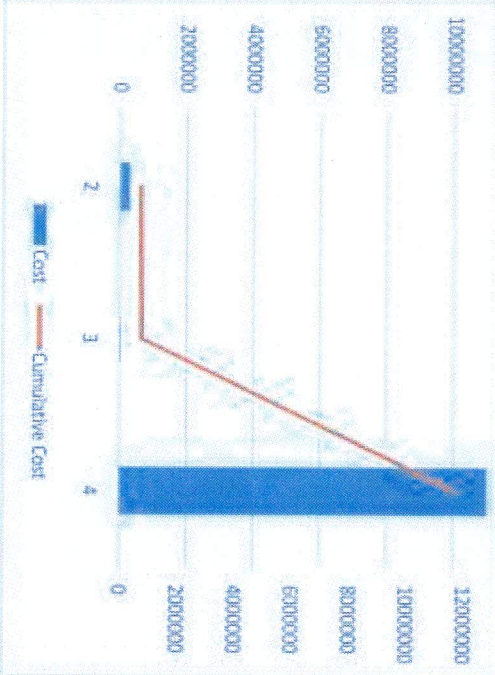
Task Name	Total Cost	Baseline	Actual	Remaining
TW	Rs11,761,712.50	Rs11,761,712.50	Rs432,692.50	Rs11,329,020.00
Initiation	Rs146,102.50	Rs146,102.50	Rs145,702.50	Rs400.00
Bid on Project	Rs120,497.50	Rs120,497.50	Rs120,097.50	Rs400.00
Bid document	Rs3,857.50	Rs3,857.50	Rs3,857.50	Rs0.00
Preparing Company Portfolio	Rs160.00	Rs160.00	Rs160.00	Rs0.00
Developing Project Charter	Rs1,840.00	Rs1,840.00	Rs1,840.00	Rs0.00
Preparing Technical Specifications document	Rs442.50	Rs442.50	Rs442.50	Rs0.00
Preparing of Quotation document	Rs445.00	Rs445.00	Rs445.00	Rs0.00
Preparing of Approval Document	Rs970.00	Rs970.00	Rs970.00	Rs0.00
Initiate bid	Rs1,000.00	Rs1,000.00	Rs1,000.00	Rs0.00
Delivering bid document to PITB	Rs200.00	Rs200.00	Rs200.00	Rs0.00
Go to Tender Opening Meeting	Rs800.00	Rs800.00	Rs800.00	Rs0.00
Give Product Demo	Rs115,640.00	Rs115,640.00	Rs115,240.00	Rs400.00
Presentation of Product	Rs33,940.00	Rs33,940.00	Rs33,940.00	Rs0.00
Meeting for approval or customization of technical specifications	Rs6,800.00	Rs6,800.00	Rs6,800.00	Rs0.00
Resubmitting Technical Specifications document after meeting with engineering department	Rs8,675.00	Rs8,675.00	Rs8,475.00	Rs200.00
Meeting for Price negotiation and finalize the quotation of product	Rs10,400.00	Rs10,400.00	Rs10,400.00	Rs0.00
Resubmitting the price quotation after modification	Rs10,625.00	Rs10,625.00	Rs10,425.00	Rs200.00
Finalized Requirements of PITB	Rs0.00	Rs0.00	Rs0.00	Rs0.00
Product Hardware and Software Testing	Rs45,200.00	Rs45,200.00	Rs45,200.00	Rs0.00
Assigning of Contract	Rs25,605.00	Rs25,605.00	Rs25,605.00	Rs0.00
Engineering	Rs514,540.00	Rs514,540.00	Rs286,990.00	Rs227,550.00
Product Hardware Customization	Rs204,000.00	Rs204,000.00	Rs204,000.00	Rs0.00
Customizing hardware as per the requirement	Rs148,000.00	Rs148,000.00	Rs148,000.00	Rs0.00
checking stability of hardware	Rs51,600.00	Rs51,600.00	Rs51,600.00	Rs0.00
Getting hardware customization approval from PITB	Rs4,400.00	Rs4,400.00	Rs4,400.00	Rs0.00
Product Software Development	Rs226,540.00	Rs226,540.00	Rs82,990.00	Rs143,550.00
Develop Fron-End (Design) of Software	Rs12,840.00	Rs12,840.00	Rs12,840.00	Rs0.00
Developing Screens and Mockups	Rs10,800.00	Rs10,800.00	Rs10,800.00	Rs0.00
Getting Approval of design from PITB	Rs2,040.00	Rs2,040.00	Rs2,040.00	Rs0.00
Develop Back-End (Functionality) of Software	Rs213,700.00	Rs213,700.00	Rs70,150.00	Rs143,550.00
Software Developing & Coding	Rs129,800.00	Rs129,800.00	Rs70,150.00	Rs59,650.00
Customizing existing system according to requirements	Rs61,800.00	Rs61,800.00	Rs46,350.00	Rs15,450.00
Adding new features according to requirements	Rs68,000.00	Rs68,000.00	Rs23,800.00	Rs44,200.00
Checking Functionality of Software	Rs14,700.00	Rs14,700.00	Rs0.00	Rs14,700.00
Getting Functionality Performance Approval from PITB	Rs6,800.00	Rs6,800.00	Rs0.00	Rs6,800.00
Installation of Software in device	Rs62,400.00	Rs62,400.00	Rs0.00	Rs62,400.00
Checking Hardware Compatibility with software	Rs84,000.00	Rs84,000.00	Rs0.00	Rs84,000.00
Delivering Finalized Device And Software to PITB	Rs0.00	Rs0.00	Rs0.00	Rs0.00
Documentation	Rs78,000.00	Rs78,000.00	Rs0.00	Rs78,000.00
Developing SOP's and POE's	Rs30,400.00	Rs30,400.00	Rs0.00	Rs30,400.00
Developing How to Use document	Rs30,400.00	Rs30,400.00	Rs0.00	Rs30,400.00
Design of Product Brochures	Rs11,200.00	Rs11,200.00	Rs0.00	Rs11,200.00
Developing Product User Manuals	Rs6,000.00	Rs6,000.00	Rs0.00	Rs6,000.00
IT Services	Rs214,300.00	Rs214,300.00	Rs0.00	Rs214,300.00
Device Monitoring and Tracking Portal	Rs214,300.00	Rs214,300.00	Rs0.00	Rs214,300.00
Dashboard Development	Rs205,640.00	Rs205,640.00	Rs0.00	Rs205,640.00
Develop Front-End (Design) of Dashboard	Rs15,120.00	Rs15,120.00	Rs0.00	Rs15,120.00

Task Name	Total Cost	Baseline	Actual	Remaining
Changing Existing Design Colors and Branding according to requirements	Rs6,480.00	Rs6,480.00	Rs0.00	Rs6,480.00
Adding new screens and options according to requirements	Rs8,640.00	Rs8,640.00	Rs0.00	Rs8,640.00
Develop Back-End (Functionality) of Dashboard	Rs185,120.00	Rs185,120.00	Rs0.00	Rs185,120.00
Customising the existing dashboard functions according to requirements	Rs35,520.00	Rs35,520.00	Rs0.00	Rs35,520.00
adding new features according to requirements	Rs149,600.00	Rs149,600.00	Rs0.00	Rs149,600.00
Getting Approval of dashboard from PITB	Rs5,400.00	Rs5,400.00	Rs0.00	Rs5,400.00
Reporting Development	Rs8,660.00	Rs8,660.00	Rs0.00	Rs8,660.00
Developing Daily Reporting	Rs620.00	Rs620.00	Rs0.00	Rs620.00
Developing Monthly Reporting	Rs620.00	Rs620.00	Rs0.00	Rs620.00
Developing Yearly Reporting	Rs620.00	Rs620.00	Rs0.00	Rs620.00
Getting Approval of Reporting formats from PITB	Rs6,800.00	Rs6,800.00	Rs0.00	Rs6,800.00
Devliver Finalized Web portals to PITB	Rs0.00	Rs0.00	Rs0.00	Rs0.00
Deployment	Rs130,820.00	Rs130,820.00	Rs0.00	Rs130,820.00
Installation	Rs65,510.00	Rs65,510.00	Rs0.00	Rs65,510.00
Installing devices as per the required places	Rs41,710.00	Rs41,710.00	Rs0.00	Rs41,710.00
Installing user id's and profiles	Rs9,900.00	Rs9,900.00	Rs0.00	Rs9,900.00
Installing required data of PITB	Rs13,900.00	Rs13,900.00	Rs0.00	Rs13,900.00
Configuration	Rs41,750.00	Rs41,750.00	Rs0.00	Rs41,750.00
Configuring biometric devices with PITB network	Rs15,350.00	Rs15,350.00	Rs0.00	Rs15,350.00
Creating user profiles to maintain the devices	Rs9,600.00	Rs9,600.00	Rs0.00	Rs9,600.00
configuring reportings as required	Rs5,600.00	Rs5,600.00	Rs0.00	Rs5,600.00
configuring biometric devices with PITB computers	Rs11,200.00	Rs11,200.00	Rs0.00	Rs11,200.00
Stability Test	Rs23,560.00	Rs23,560.00	Rs0.00	Rs23,560.00
Checking Installed Hardware	Rs17,800.00	Rs17,800.00	Rs0.00	Rs17,800.00
Checking Software and Functionality	Rs5,760.00	Rs5,760.00	Rs0.00	Rs5,760.00
Handover of Devices / Deployment and Services	Rs10,555,200.00	Rs10,555,200.00	Rs0.00	Rs10,555,200.00
PITB Staff Trainings	Rs75,550.00	Rs75,550.00	Rs0.00	Rs75,550.00
Session 1	Rs14,360.00	Rs14,360.00	Rs0.00	Rs14,360.00
Giving introduction about device	Rs2,920.00	Rs2,920.00	Rs0.00	Rs2,920.00
Giving Training about how to use device	Rs5,720.00	Rs5,720.00	Rs0.00	Rs5,720.00
Giving Training about how to install or reinstall device	Rs5,720.00	Rs5,720.00	Rs0.00	Rs5,720.00
Session 2	Rs13,560.00	Rs13,560.00	Rs0.00	Rs13,560.00
Giving Training about How to configure device with network and computers	Rs4,920.00	Rs4,920.00	Rs0.00	Rs4,920.00
Giving Training about how to maintain records in device	Rs2,920.00	Rs2,920.00	Rs0.00	Rs2,920.00
Giving Training about How to import and export data from device	Rs5,720.00	Rs5,720.00	Rs0.00	Rs5,720.00
Session 3	Rs5,900.00	Rs5,900.00	Rs0.00	Rs5,900.00
Giving Training about how to customize or repair hardware	Rs2,920.00	Rs2,920.00	Rs0.00	Rs2,920.00
Giving Training about How to customize or modify software	Rs2,980.00	Rs2,980.00	Rs0.00	Rs2,980.00
Session 4	Rs14,360.00	Rs14,360.00	Rs0.00	Rs14,360.00
Giving Training about How to use monitoring web portal	Rs5,720.00	Rs5,720.00	Rs0.00	Rs5,720.00
Giving Training about How to use dashboard	Rs5,720.00	Rs5,720.00	Rs0.00	Rs5,720.00
Giving Training about How to generate reports	Rs2,920.00	Rs2,920.00	Rs0.00	Rs2,920.00
Getting Trainings feedback from PITB	Rs0.00	Rs0.00	Rs0.00	Rs0.00
Marketing	Rs27,370.00	Rs27,370.00	Rs0.00	Rs27,370.00

Item Name	Total Cost	Baseline	Actual	Remaining
Digital Advertisement	Rs22,970.00	Rs22,970.00	Rs0.00	Rs22,970.00
Developing Facebook Advertisement	Rs13,750.00	Rs13,750.00	Rs0.00	Rs13,750.00
Drafting Newsletter for Website	Rs4,610.00	Rs4,610.00	Rs0.00	Rs4,610.00
Twittering Post of Contracting b / w TW and PITB	Rs4,610.00	Rs4,610.00	Rs0.00	Rs4,610.00
Newspaper Ads	Rs4,400.00	Rs4,400.00	Rs0.00	Rs4,400.00
Giving News papers Ad in Jang News	Rs4,400.00	Rs4,400.00	Rs0.00	Rs4,400.00
Monitoring & Controlling	Rs0.00	Rs0.00	Rs0.00	Rs0.00
Change Request Generating	Rs0.00	Rs0.00	Rs0.00	Rs0.00
Closing	Rs47,200.00	Rs47,200.00	Rs0.00	Rs47,200.00
Getting Feedback from PITB	Rs35,200.00	Rs35,200.00	Rs0.00	Rs35,200.00
Adding up the Contract details to CRM	Rs4,000.00	Rs4,000.00	Rs0.00	Rs4,000.00
Updating Lesson Learned Documents	Rs8,000.00	Rs8,000.00	Rs0.00	Rs8,000.00

CASH FLOW

Actual Cost	Baseline Cost	Remaining Cost	Cost Variance
Rs432,692.5	Rs11,761,71	Rs11,329,02	Rs0.00
0	2.50	0.00	



The chart shows the project's cumulative cost and the cost per quarter. To see the costs for a different time period, select the Edit option from the Field List. The table below shows cost information for all top-level tasks. To see cost stats for all tasks, set the Outtime Level in the Field List.

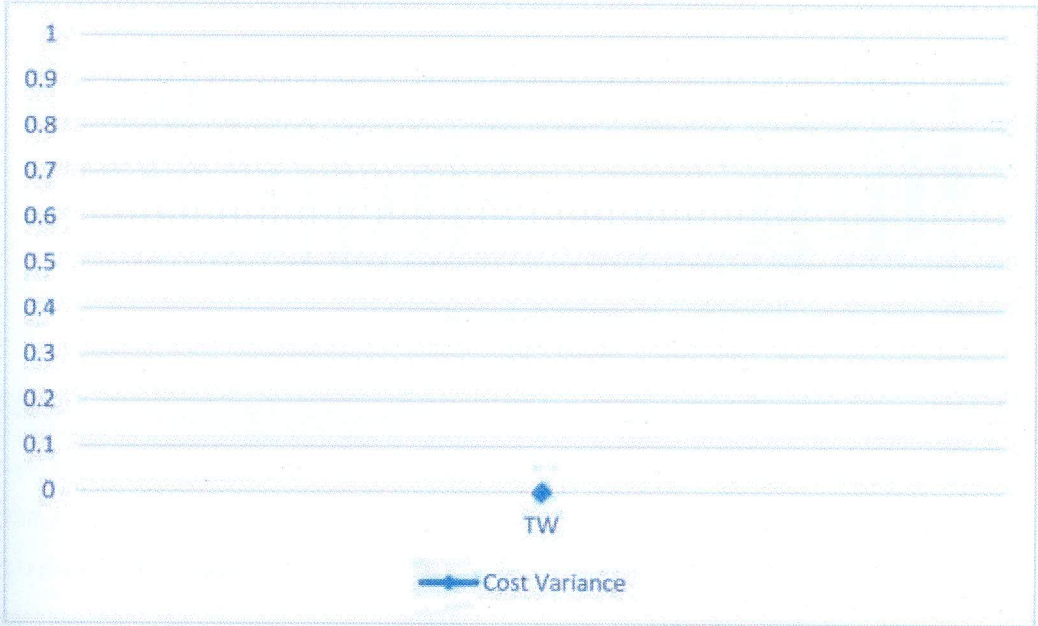
Name	Remaining Cost	Actual Cost	Cost	ACWP	BCWP	BCWS
TW	Rs11,329,020.00	Rs432,692.50	Rs11,761,712	Rs432,492.50	Rs432,491.86	Rs635,162.50

Project Cost Overruns:

COST OVERRUNS

TASK COST VARIANCE

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



Name	% Complete	Cost	Baseline Cost	Cost Variance
TW	22%	Rs11,761,712.50	Rs11,761,712.50	Rs0.00

COST OVERRUNS

RESOURCE COST VARIANCE

Cost variance for all the work resources.



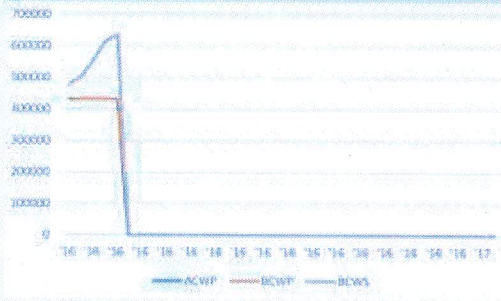
Name	Cost	Baseline Cost	Cost Variance
Sales Director	Rs80,000.00	Rs80,000.00	Rs0.00
PM of sales	Rs89,515.00	Rs89,515.00	Rs0.00
Marketing Manager	Rs18,000.00	Rs18,000.00	Rs0.00
Marketing Field	Rs0.00	Rs0.00	Rs0.00
Head of Engineering Department	Rs70,400.00	Rs70,400.00	Rs0.00
Electrical Engineer	Rs232,400.00	Rs232,400.00	Rs0.00
Installation Engineer	Rs52,000.00	Rs52,000.00	Rs0.00
Software Developer	Rs342,650.00	Rs342,650.00	Rs0.00
Graphic Designer	Rs70,875.00	Rs70,875.00	Rs0.00
Quality Assurance Engineer	Rs58,800.00	Rs58,800.00	Rs0.00
IT Network Engineer	Rs169,400.00	Rs169,400.00	Rs0.00
Social Media Developer	Rs14,400.00	Rs14,400.00	Rs0.00
Cutomer Relationship Officer	Rs12,000.00	Rs12,000.00	Rs0.00

Earned Value Analysis

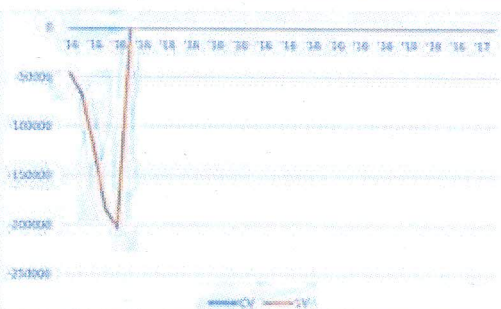
EARNED VALUE

Management helps you quantify the performance of a project cost and schedule to a baseline to determine if you're on track.
To get right, make sure you have set a baseline, entered resources, and entered progress.

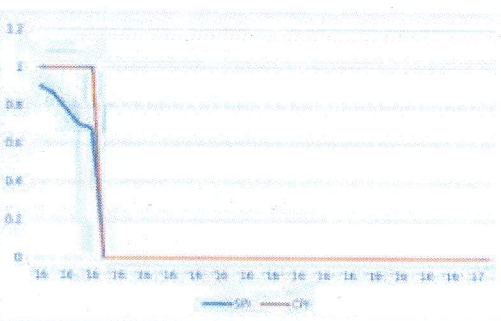
EAC	ACWP	BCWP
Rs11,761,8	Rs432,492.	Rs432,491.
26.44	50	86



EARNED VALUE OVER TIME
The project's earned value based on the status date. If actual cost (ACWP) is higher than earned value (BCWP), then the project is over budget. If planned value (BCWS) is higher than earned value, then the project is behind schedule.
[Click here about earned value](#)



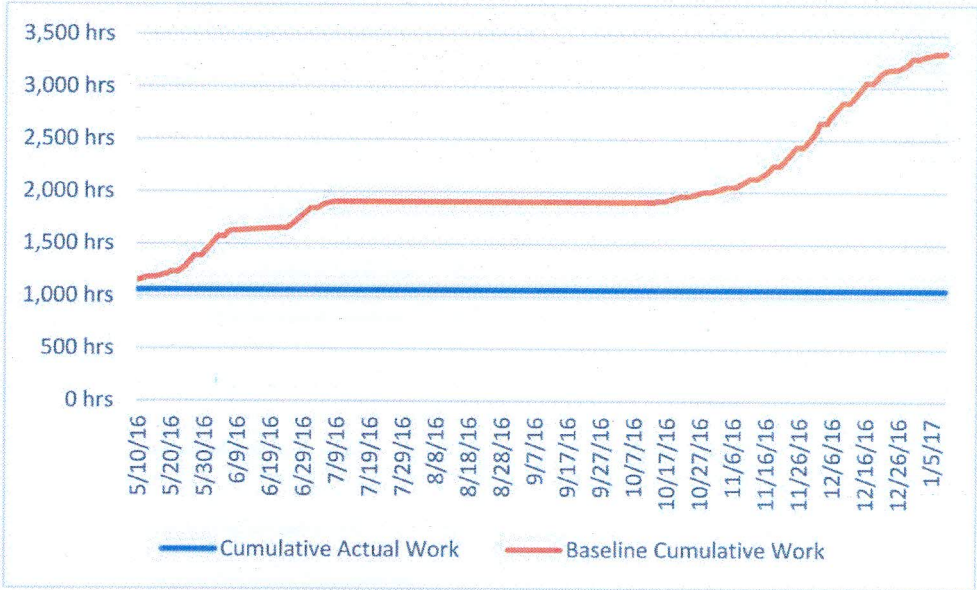
VARIANCE OVER TIME
Cost and schedule variances for the project based on status date. If CV is negative then, the project is over budget. If SV is positive then the project is behind schedule.



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 within the project.

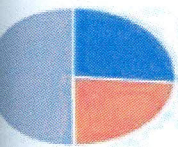
S-Curve:

S Curve Report



Critical Tasks

CRITICAL TASKS

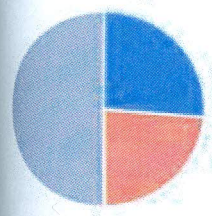


1 Complete
1 Status Late
1 Future Task

A task is critical if there is no margin in the schedule for it to slip.
SCHEDULE SLIP: A task is critical if there is no margin in the schedule for it to slip.

Name	Start	Finish	% Complete	Remaining Work	Resource Name
Changing Existing Design Colors and Branding according to requirements	Fri 10/14/16	Tue 10/18/16	0%	24 hrs	Graphic Designer,Laptop[24]
Adding new screens and options according to requirements	Tue 10/18/16	Mon 10/24/16	0%	32 hrs	Graphic Designer,Laptop[32]
Customising the existing dashboard functions according to requirements	Mon 10/24/16	Mon 11/7/16	0%	96 hrs	Software Developer,Laptop[96]
adding new features according to requirements	Mon 11/7/16	Thu 12/8/16	0%	416 hrs	Electrical Engineer,Software Developer,Laptop[200]
Getting Approval of dashboard from PITB	Fri 12/9/16	Fri 12/9/16	0%	12 hrs	IT Network Engineer[50%],PM of sales
Developing Daily Reporting	Fri 12/9/16	Fri 12/9/16	0%	2 hrs	Laptop[1],Software Developer,Graphic Designer
Developing Monthly Reporting	Fri 12/9/16	Fri 12/9/16	0%	2 hrs	Laptop[1],Software Developer,Graphic Designer
Developing Yearly Reporting	Fri 12/9/16	Fri 12/9/16	0%	2 hrs	Graphic Designer,Laptop[1],Software Developer
Getting Approval of Reporting formats from PITB	Mon 12/12/16	Mon 12/12/16	0%	16 hrs	Software Developer,PM of sales
Installing devices as per the required places	Thu 11/17/16	Mon 11/28/16	0%	128 hrs	Engineering Tools Kit[64],Hardware Testing Device[64],Installation Engineer,IT Network Engineer,Network Ethernet Cables[5]
Installing user id's and profiles	Mon 11/28/16	Tue 11/29/16	0%	32 hrs	Installation Engineer,IT Network Engineer,Laptop[15]
Installing required data of PITB	Wed 11/30/16	Thu 12/1/16	0%	32 hrs	IT Network Engineer,Laptop[15],PM of sales
Configuring biometric devices with PITB network	Thu 12/1/16	Mon 12/5/16	0%	48 hrs	Installation Engineer,IT Network Engineer,Network Ethernet Cables[1],Software Developer
Creating user profiles to maintain the devices	Thu 12/1/16	Mon 12/5/16	0%	32 hrs	Installation Engineer,IT Network Engineer
configuring biometric devices with PITB computers	Mon 12/5/16	Wed 12/7/16	0%	32 hrs	IT Network Engineer,Software Developer
Checking installed Hardware	Wed 12/7/16	Fri 12/9/16	0%	48 hrs	Electrical Engineer,Engineering Tools Kit[25],Hardware Testing Device[25],Quality Assurance Engineer
Checking Software and Functionality	Mon 12/12/16	Mon 12/12/16	0%	16 hrs	Quality Assurance Engineer,Software Developer,Software Testing System[8]
Maintenance of Hardware / Peripherals and	Mon	Thu 12/15/16	79%	56 hrs	Start of

CRITICAL TASKS

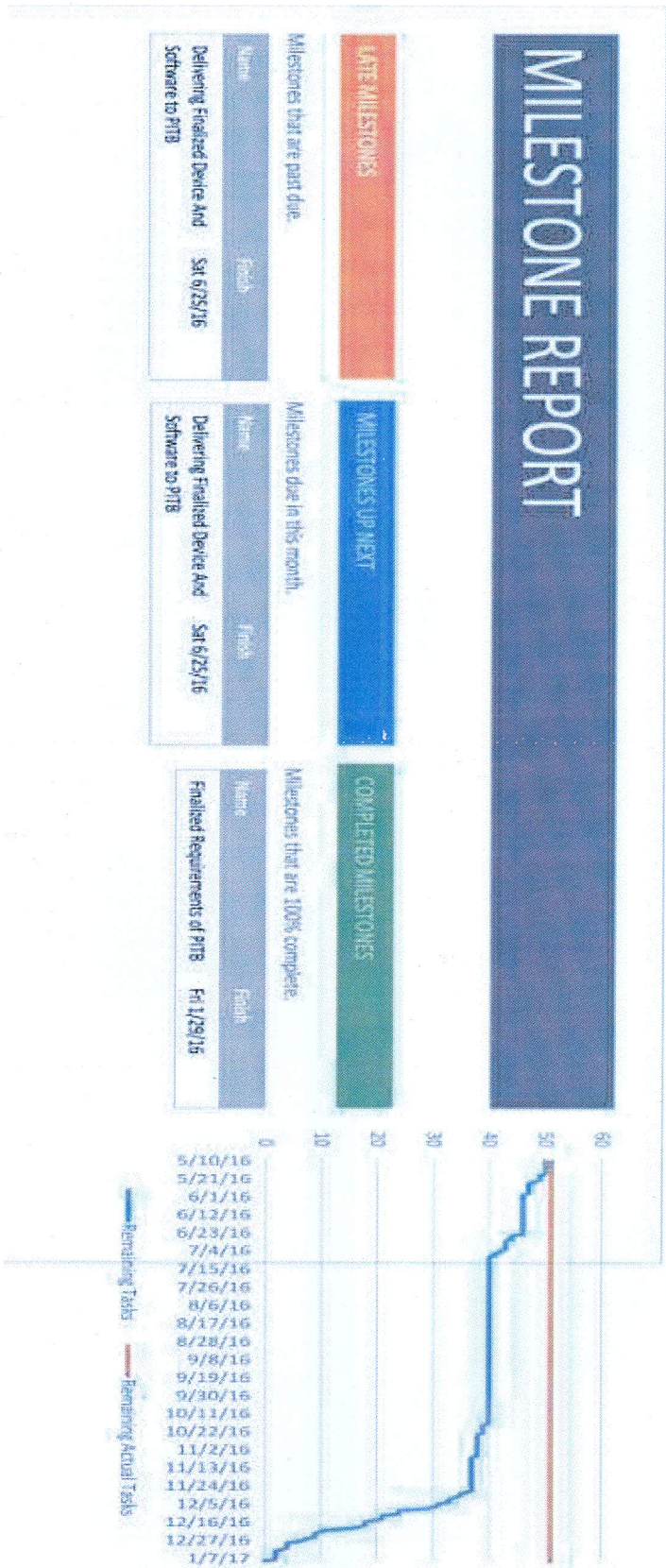


Status: Complete
Status: Late
Status: Future Task

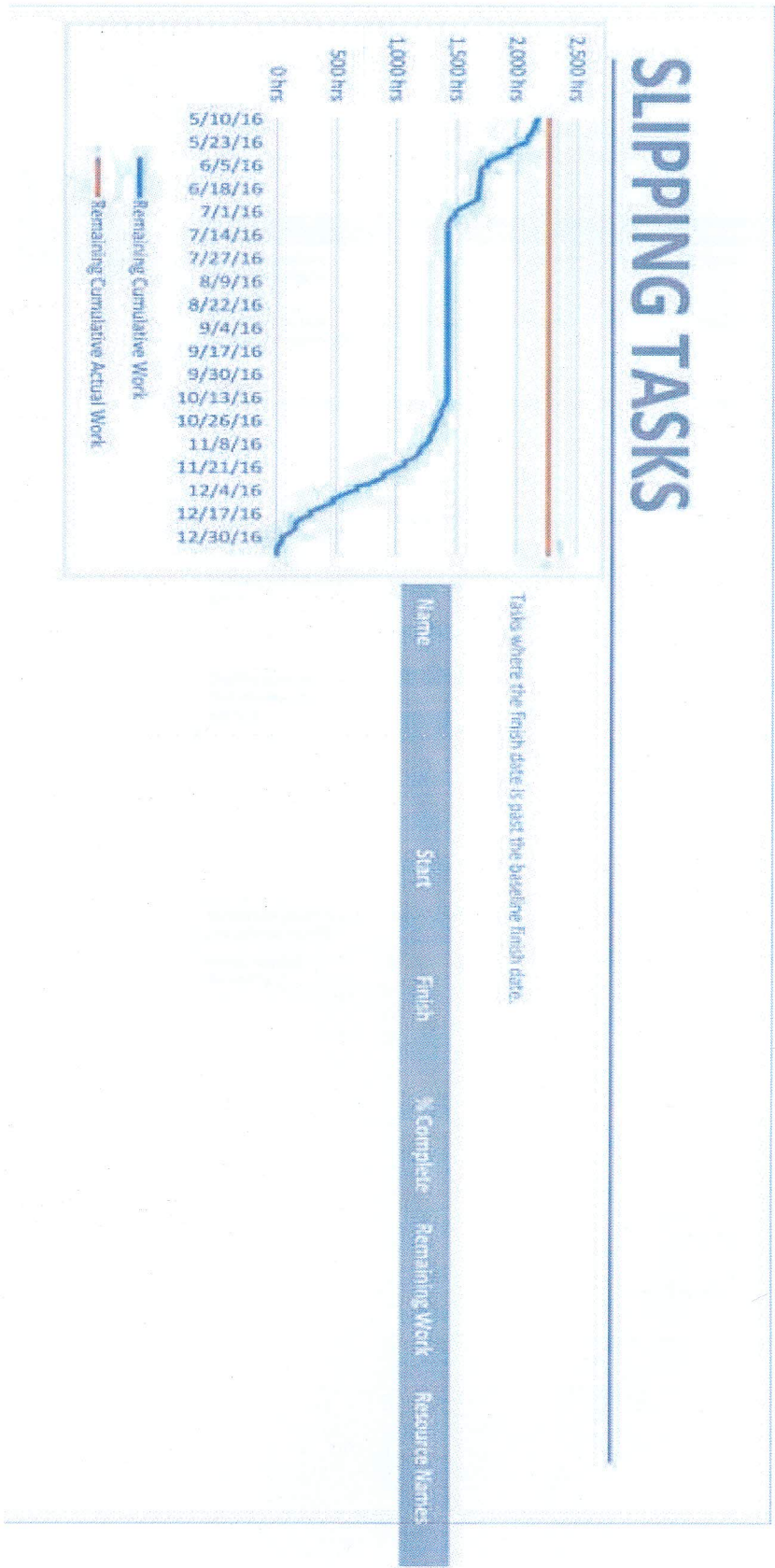
A task is critical if there is no room in the schedule for it to slip.
[Learn more about characterizing your project's critical path.](#)

Name	Start	Finish	% Complete	Remaining Work	Resource Names
Services	12/12/16				Engineering Department, Sales Director, Marketing Manager, Biometric Device[1,500], PM of sales
Giving introduction about device	Thu 12/15/16	Fri 12/16/16	0%	8 hrs	Electrical Engineer, Laptop[3], Projector[3]
Giving Training about how to use device	Fri 12/16/16	Mon 12/19/16	0%	16 hrs	Electrical Engineer, Software Developer, Laptop[3], Projector[3]
Giving Training about how to install or reinstall device	Mon 12/19/16	Tue 12/20/16	0%	16 hrs	Electrical Engineer, Software Developer, Laptop[3], Projector[3]
Giving Training about How to configure device with network and computers	Tue 12/20/16	Wed 12/21/16	0%	16 hrs	Installation Engineer, IT Network Engineer, Laptop[3], Projector[3]
Giving Training about how to maintain records in device	Wed 12/21/16	Wed 12/21/16	0%	8 hrs	IT Network Engineer, Laptop[3], Projector[3]
Giving Training about How to import and export data from device	Thu 12/22/16	Thu 12/22/16	0%	16 hrs	IT Network Engineer, Laptop[3], Projector[3], Software Developer
Giving Training about how to customize or repair hardware	Thu 12/22/16	Fri 12/23/16	0%	8 hrs	Electrical Engineer, Engineering Tools Kit[3], Hardware Testing Device[3]
Giving Training about How to customize or modify software	Fri 12/23/16	Mon 12/26/16	0%	8 hrs	Laptop[3], Projector[3], Software Developer, Software Testing System[3]
Giving Training about How to use monitoring web portal	Mon 12/26/16	Tue 12/27/16	0%	16 hrs	IT Network Engineer, Laptop[3], Projector[3], Software Developer
Giving Training about How to use dashboard	Tue 12/27/16	Wed 12/28/16	0%	16 hrs	IT Network Engineer, Laptop[3], Projector[3], Software Developer
Giving Training about How to generate reports	Wed 12/28/16	Thu 12/29/16	0%	8 hrs	Laptop[3], Projector[3], Software Developer
Change Request Generating	Mon 1/18/17	Mon 1/9/17	12%	0 hrs	
Getting Feedback from PITB	Thu 12/29/16	Mon 1/2/17	0%	64 hrs	Head of Engineering Department, Quality Assurance Engineer, Sales Director, PM of sales
Adding up the Contract details to CRM	Mon 1/2/17	Tue 1/3/17	0%	16 hrs	Customer Relationship Officer
Updating Lesson Learned Documents	Tue 1/3/17	Mon 1/9/17	0%	32 hrs	Customer Relationship Officer

Milestone Report

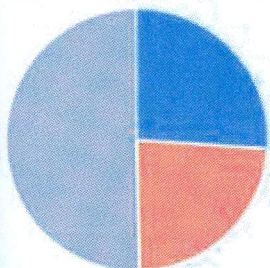


Slipping Tasks:



Late Tasks:

LATE TASKS



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

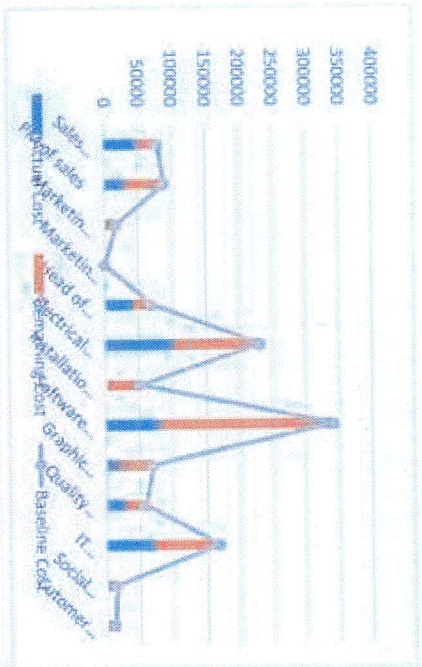
Tasks that are late as compared to the status date. A task is late if its finish date has passed or it is not progressing as planned.

Name	Start	Finish	% Complete	Remaining Work	Resource Name(s)
Customizing existing system according to requirements	Wed 3/23/16	Wed 4/20/16	75%	42 hrs	Software Developer,Laptop[150]
Adding new features according to requirements	Thu 4/21/16	Thu 5/19/16	35%	114.4 hrs	Laptop[160],Software Developer,Software Testing System[160]
Checking Functionality of Software	Thu 5/19/16	Mon 5/23/16	0%	32 hrs	Software Developer,Software Testing System[15],Head of Engineering Department
Getting Functionality Performance Approval from PITB	Mon 5/23/16	Tue 5/24/16	0%	16 hrs	Software Developer,PM of sales
Installation of Software in device	Tue 5/24/16	Tue 5/31/16	0%	192 hrs	Electrical Engineer,Installation Engineer,IT Network Engineer,Software Developer
Checking Hardware Compatibility with software	Tue 5/31/16	Sat 6/25/16	0%	200 hrs	Engineering Tools Kit[200],Hardware Testing Device[200],Quality Assurance Engineer,Software Developer,Software Testing System[200],Installation Engineer,IT Network Engineer,PM of sales[200]
Delivering Finalized Device And Software to PITB	Tue 5/10/16	Sat 6/25/16	34%	0 hrs	
Change Request Generating	Mon 1/18/16	Mon 1/9/17	12%	0 hrs	

RESOURCE COST OVERVIEW

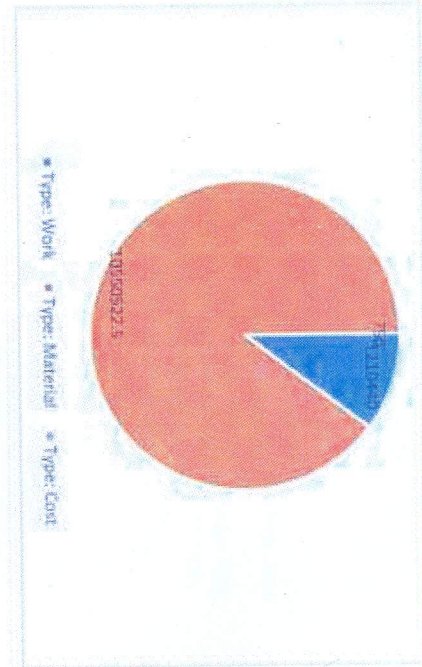
COST STATUS

Cost status for work resources.



COST DISTRIBUTION

How costs are spread out amongst different resource types.



COST DETAILS

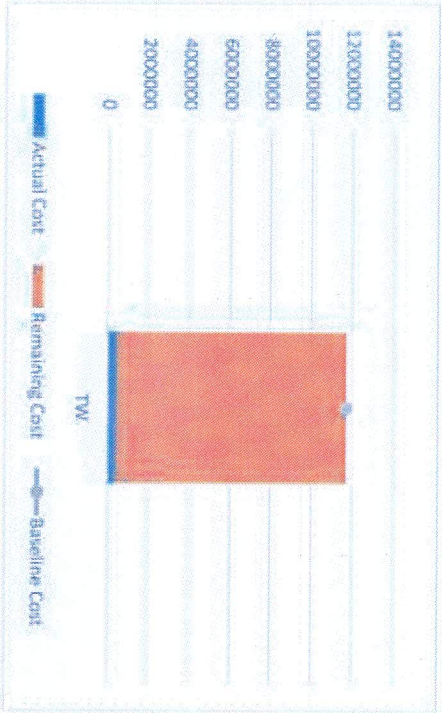
Cost details for all work resources.

Name	Actual Work	Actual Cost	Standard Rate
Sales Director	60 hrs	Rs48,000.00	Rs800.00/hr
PM of sales	59.03 hrs	Rs29,515.00	Rs500.00/hr
Marketing Manager	0 hrs	Rs0.00	Rs450.00/hr
Marketing Field	0 hrs	Rs0.00	Rs200.00/hr
Head of Engineering Department	72 hrs	Rs39,600.00	Rs550.00/hr
Electrical Engineer	288 hrs	Rs180,800.00	Rs350.00/hr
Installation Engineer	0 hrs	Rs0.00	Rs250.00/hr
Software Developer	227.6 hrs	Rs79,660.00	Rs350.00/hr
Graphic Designer	72.5 hrs	Rs18,125.00	Rs250.00/hr
Quality Assurance Engineer	80 hrs	Rs28,000.00	Rs350.00/hr
IT Network Engineer	200 hrs	Rs70,000.00	Rs350.00/hr
Social Media Developer	0 hrs	Rs0.00	Rs300.00/hr
Customer Relationship Officer	0 hrs	Rs0.00	Rs250.00/hr

TASK COST OVERVIEW

COST STATUS

Cost status for top level tasks.



COST DISTRIBUTION

How costs are spread out amongst tasks based on their status.



COST DETAILS

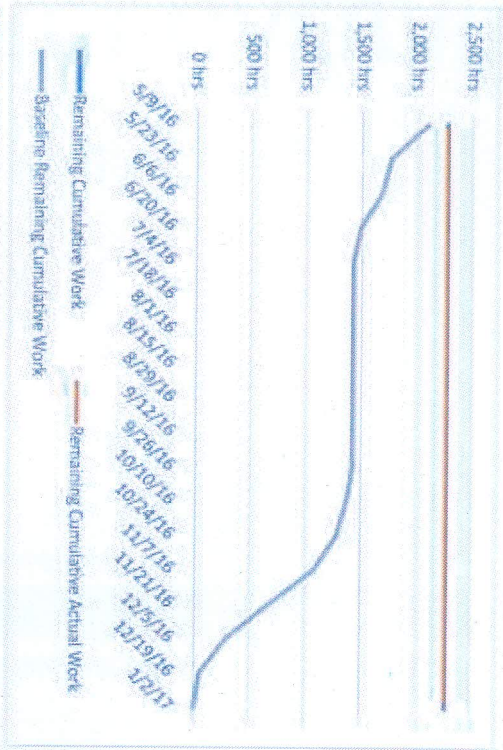
Cost details for all top level tasks.

Name	Fixed Cost	Actual Cost	Remaining Cost	Cost	Baseline Cost	Cost Variance
TW	Rs0.00	Rs432,692.50	Rs11,329,020.00	Rs11,761.7	Rs11,761,712.5	Rs0.00

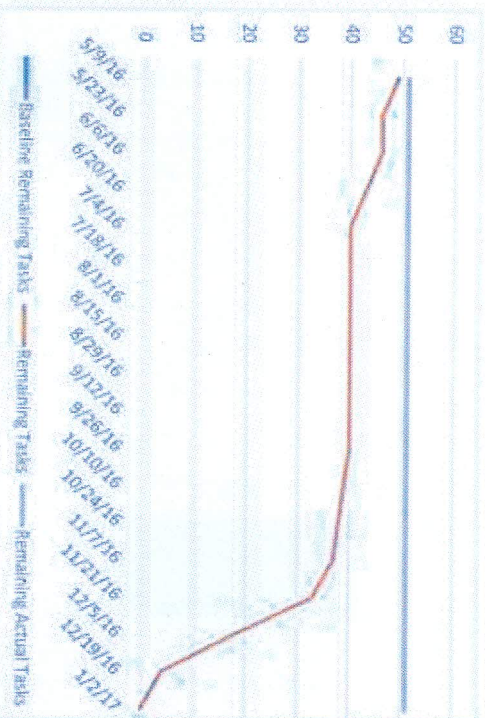
Dashboards:

Burn down Dashboard:

Mon 1/18/16 - Mon 1/9/17
BURNDOWN



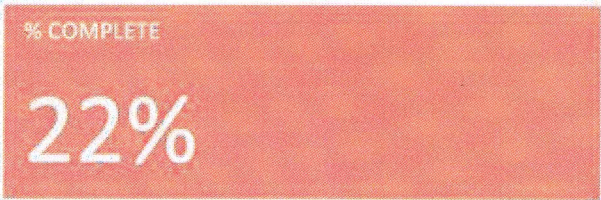
WORK BURNDOWN
Shows how much work you have completed and how much you have left. (If the remaining cumulative work line is steeper, then the project may be late. Is your baseline zero?)
[Try setting a baseline](#)



TASK BURNDOWN
Shows how many tasks you have completed and how many you have left. (If the remaining task is steeper, then your project may be late.)
[Learn more](#)

PROJECT OVERVIEW

MON 1/18/16 - MON 1/9/17



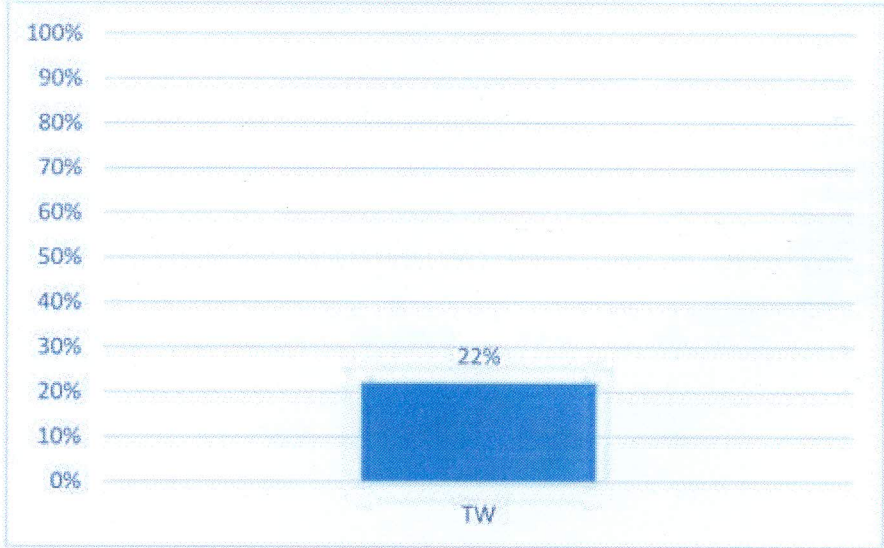
MILESTONES DUE

Milestones that are coming soon.

Name	Finish
Delivering Finalized Device And Software to PITB	Sat 6/25/16
Deliver Finalized Web portals to PITB	Mon 12/12/16
Getting Trainings feedback from PITB	Thu 12/29/16

% COMPLETE

Status for all top-level tasks. To see the status for subtasks, click on the chart and update the outline level in the Field List.



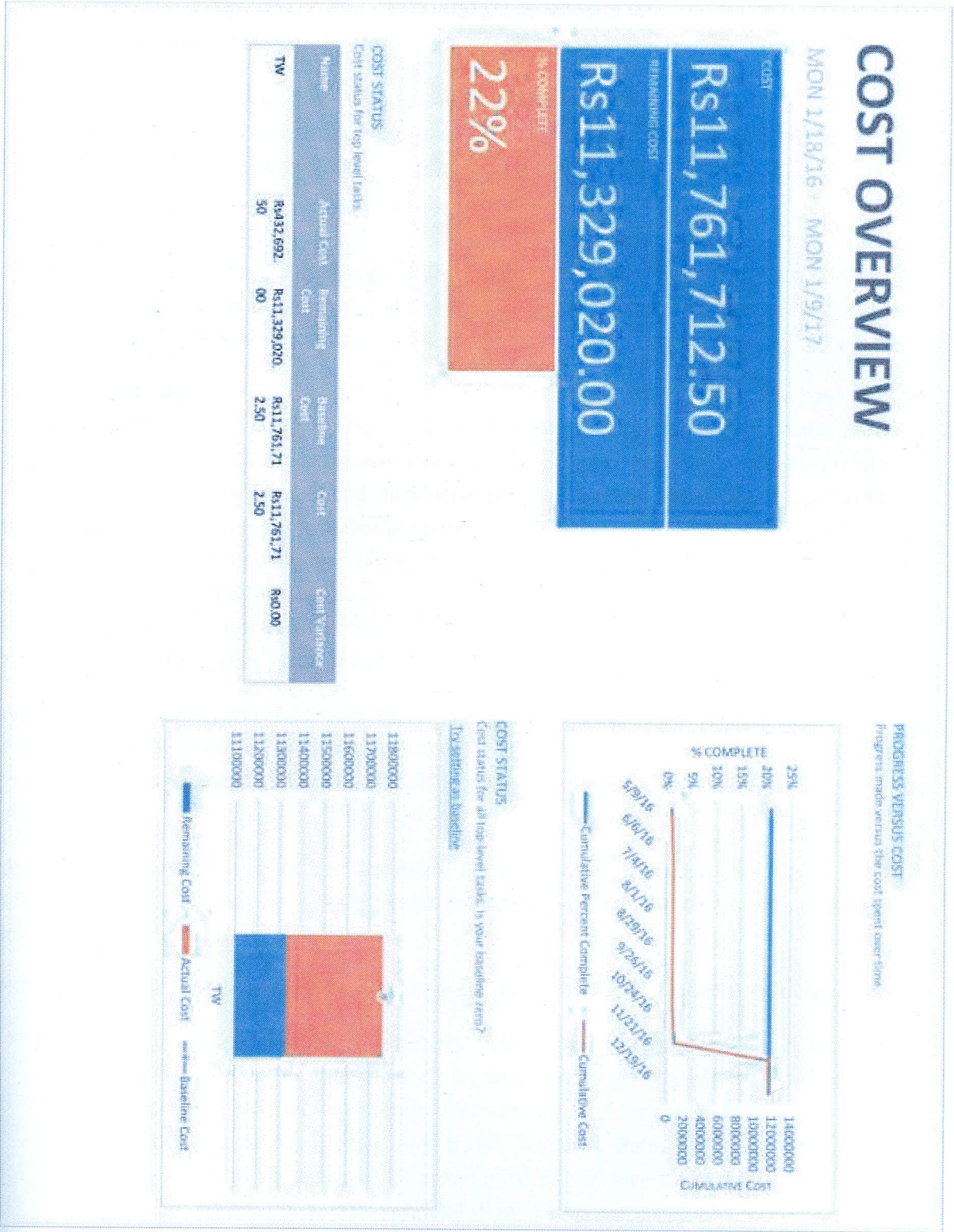
PROJECT OVERVIEW

LATE TASKS

Tasks that are past due.

Name	Start	Finish	Duration	% Complete	Resource Names
Customizing existing system according to requirements	Wed 3/23/16	Wed 4/20/16	21 days	75%	Software Developer,Laptop[150]
Adding new features according to requirements	Thu 4/21/16	Thu 5/19/16	22 days	35%	Laptop[160],Software Developer,Software Testing System[160]
Checking Functionality of Software	Thu 5/19/16	Mon 5/23/16	2 days	0%	Software Developer,Software Testing System[15],Head of Engineering Department
Getting Functionality Performance Approval from PITB	Mon 5/23/16	Tue 5/24/16	1 day	0%	Software Developer,PM of sales
Installation of Software in device	Tue 5/24/16	Tue 5/31/16	6 days	0%	Electrical Engineer,Installation Engineer,IT Network Engineer,Software Developer
Checking Hardware Compatibility with software	Tue 5/31/16	Sat 6/25/16	25 days	0%	Engineering Tools Kit[200],Hardware Testing Device[200],Quality Assurance Engineer,Software Developer,Software Testing System[200],Installation Engineer,IT Network Engineer,PM of sales[20%]
Delivering Finalized Device And Software to PITB	Tue 5/10/16	Sat 6/25/16	0 days	34%	
Change Request Generating	Mon 1/18/16	Mon 1/9/17	289.88 days	12%	

Project Cost Overview Dashboard:



Chapter 8: Terms & Conditions of project

This Non-Disclosure Agreement (the "Agreement") is entered into and is effective as of (the "Effective Date") by and between:

1. Tracking World (Pvt). Ltd. a company duly organized and existing under and by the virtue of the laws of Islamic Republic of Pakistan, whose address is at 51-B, Faisal Town, Lahore-Pakistan. (Here in after referred to as the "TW"),

AND

2. Pujnab Information Technology Board (PITB), a company duly organized and existing under and by the virtue of the laws of Republic of Pakistan, whose address is at (Address). (Hereinafter referred to as the "PITB").

WHEREAS, the parties agree that during the course of their relation, the parties have and will become aware of information related to each other's business, which might fairly be considered to be of confidential nature including but not limited to the information related to Data, Prospective or unannounced products, product design, development information, system's firmware, software, technical concepts, reverse engineering, counter product, copying, know-how, information related to principals, suppliers, agents, pricing policies, commercial relationships, finances, or any information in respect of which the parties are bound by an obligation of confidentiality to any third party or direct contact to the principals and all of which the parties agree are proprietary information such as "Trade Secrets"

WHEREAS, each party (the "Receiving Party") understands that the other party (the "Disclosing Party") may have disclosed and/or will disclose certain Confidential Information as described for the purposes of during the course of commercial dealing and afterward between the parties;

WHEREAS, in consideration of the disclosure of such information to any party, the party is willing to keep such information confidential in accordance with the terms and conditions set forth in this Agreement.

NOW THEREFORE, both parties agree to the terms and conditions referred as follows:

1. **Definition of Confidential Information.** "Confidential Information" shall mean (i) all information disclosed in tangible form by the Disclosing Party will be "confidential" or "proprietary", and (ii) all information disclosed orally or otherwise in intangible form by the Disclosing Party that is designated by the Disclosing Party and acknowledged by the Receiving Party as confidential or proprietary at the time of disclosure. Confidential Information may include, without limitation, computer programs, code, algorithms,

details of manufacturer, developer, supplier's information, names and expertise of employees and consultants, know-how, formulas, processes, ideas, inventions (whether patentable or not), schematics and other technical, reverse engineering, counter product, copying, industrial, administrative, business, financial information, and product development plans, forecasts, and strategies.

2. **Confidentiality Obligation.** The Receiving Party agrees to protect the Confidential Information by using a reasonable degree of care or such higher degree of care as agreed with the Disclosing Party, to prevent the unauthorized use, dissemination or publication of the Confidential Information. The Receiving Party shall limit the use of and access to the Confidential Information to the Receiving Party's employees or independent contractors who have (i) a need to know and have been notified that such information is Confidential Information for the purpose set forth herein; and (ii) entered into binding obligations of confidentiality no less restrictive than those of this Agreement.
3. Access to Confidential Proprietary Information hereunder shall not exclude an employee of either party who has seen such Confidential Proprietary Information for the purposes of this Agreement from working on future projects which relate to similar subject matters; provided, however, that such employee does not disclose or copy the substance of the Confidential Proprietary Information during the confidentiality period. Furthermore, nothing contained herein shall be construed as preventing any employee of any party who had access to Confidential Proprietary Information from using that information retained in non-tangible form as a part of his or her general skill, knowledge, talent and expertise; provided, however, that employee has not intentionally retained such Confidential Proprietary Information or recorded as Confidential Proprietary Information as resorted to such records to refresh his or her memories.
4. Each party is the exclusive owner of the Confidential Proprietary Information provided by that party and is the exclusive owner of all right, title and interest, including any and all intellectual property rights, in the Confidential Proprietary Information notwithstanding any other provision of this Agreement, not license or conveyance, whether express implied or otherwise, of any rights under any such intellectual property rights, including, but not limited to any discoveries, inventions, copyrights, derivative works, trade secrets, trademarks, mask works or patents relating to or arising from the Confidential Proprietary Information, is hereby given or intended to be given to the receiving party. The receiving party shall not use any of the disclosing party's

Confidential Proprietary Information in the development of, nor merge any of the disclosing party's Confidential Proprietary Information into, any product of the receiving party.

5. **Term.** The term under which disclosures may not be made under this Agreement shall be during the development, production and afterward from the effective date of the agreement. The Disclosing Party's Confidential Information hereunder shall survive expiration or termination of this Agreement for a period of Five Years (05) years from the date of each such disclosure of Confidential Information, except when such Confidential Information disclosed by the Disclosing Party is source code, in which case the Receiving Party's obligation to protect such Confidential Information shall be perpetual.
6. **Exclusions.** Confidential Information shall not include Confidential Information that: (i) is or becomes a matter of public knowledge through no fault of the Receiving Party; or (ii) was in the Receiving Party's possession prior to receipt from the Disclosing Party; or (iii) was rightfully disclosed to the Receiving Party by another person without restriction; or (iv) is independently developed by the Receiving Party without access to such Confidential Information; or (v) is disclosed without any restrictions of confidentiality. The Receiving Party may disclose Confidential Information pursuant to any statutory, regulatory, governmental, quasi-governmental or other judicial authority or court order, provided the Disclosing Party is given prompt prior written notice of such requirement and the scope of such disclosure is limited to the minimum extent reasonably possible in the circumstances.
7. **Ownership.** All Confidential Information, unless otherwise specified in writing, (a) remains the property of the Disclosing Party, and (b) may be used by the Receiving Party solely for the purpose authorized. Upon written request by the Disclosing Party at any time the Receiving Party shall: (i) turn over to the Disclosing Party all Confidential Information of the Disclosing Party, all documents or media containing the Confidential Information, and any and all copies or extracts thereof, or (ii) destroy the Confidential Information, and any and all copies or extracts thereof, and provide the Disclosing Party with written certification of such destruction signed by the Receiving Party.
8. **Equitable Relief.** The Receiving Party acknowledges and agrees that due to the unique nature of the Disclosing Party's Confidential Information, there may be no adequate remedy at law for any breach of its obligations. The Receiving Party further acknowledges that any such breach may allow the Receiving Party or third parties to

unfairly compete with the Disclosing Party thereby resulting in irreparable harm to the disclosing Party and, therefore, that upon such breach or any threat thereof, the Disclosing Party shall be entitled to seek appropriate equitable relief, including but not limited to injunction in addition to whatever remedies it may have at law. The Receiving Party will notify the Disclosing Party in writing immediately upon becoming aware of any such unauthorized release or other breach.

9. **Intellectual Property Rights.** Neither party acquires any intellectual property rights under this Agreement or through any disclosure hereunder, with the exception of the limited right to use such Confidential Information in accordance with this Agreement.
10. **Non circumvention.** Neither Party shall circumvent the other Party in the implementation of the Party's ideas or Business Plans as disclosed in accordance with this Agreement. Without limiting the generality of the foregoing, neither Party shall contract directly or indirectly with any actual or potential customer, employee or supplier of the other Party identified in accordance with this Agreement.
11. **Warranty.** The Confidential Information disclosed under this Agreement is delivered "AS IS," and all representations or warranties, whether express or implied, including warranties or conditions for fitness for a particular purpose; merchantability, title and non-infringement are hereby disclaimed.
12. **Notices.** All notices required or permitted to be given under this Agreement shall be given in writing and shall be effective from the third date sent by registered or certified mail, by hand, facsimile or overnight courier to the addresses of the Parties set forth above, or such other address as either party shall have furnished to the other pursuant to this Agreement
13. **Jurisdiction.** This Agreement shall be governed by the Laws of Islamic Republic of Pakistan; the Parties shall promptly attempt to reach an amicable settlement of any dispute, disagreement or difference of any kind that arises between them as to the interpretation, performance or breach of this Agreement. If any such dispute, disagreement or difference is not settled by the Parties within a sixty days (60) day's written notice thereof to be given by one party to the other, the dispute shall be referred to the Courts of Pakistan.
14. **Independent Development.** The Disclosing Party understands that the Receiving Party may currently or in the future be developing information internally, or receiving

information from other Parties that may be similar to the Disclosing Party's information. Accordingly, nothing in this Agreement will be construed as a representation or inference that the Receiving Party will not develop products, or have products developed for it, that, without violation of this Agreement, compete with the products or systems contemplated by the Disclosing Party's Confidential Information.

15. **General.** This Agreement supersedes all prior discussions and writings with respect to the subject matter hereof and constitutes the entire agreement between the Parties with respect to the subject matter hereof. No waiver or modification of this Agreement will be binding upon either party unless made in writing and signed by a duly authorized representative of each party and no failure or delay in enforcing any right will be deemed a waiver. Neither party may assign this Agreement, or its limited rights or obligations hereunder, to any third party without the prior written consent of the other party. The Parties understand that nothing herein requires either party to proceed with any proposed transaction or relationship in connection with which Confidential Information may be disclosed. In the event that a court or other tribunal of competent jurisdiction to be unenforceable shall hold any of the provisions of this Agreement, the remaining portions hereof shall remain in full force and effect.

16. **Liability.** Disclosing party "TW" will reserve right to claim the cost, expenses and expected business loss of the project in case of any information is released or disclosed by willfully or mistakenly to any other party, company or person which can cause the loss of business to the disclosing party. The Receiving Party "PITB" will be bound to pay the projected business loss to the disclosing party if it fails to keep the confidential information within the secure parameters.

Further, the Parties acknowledge that a breach of any of the covenants of this Agreement by one Party may result in irreparable damages to the other Party. Without prejudice to the rights of the aggrieved Party to pursue any and all other legal and equitable remedies available to such Party, it is expressly agreed by both Parties that the Parties will be liable to pay a compensation towards damages suffered by the aggrieved Party due to such violation. If such other remedies and compensation in terms of money are not fully adequate to compensate the aggrieved Party for any violation, the aggrieved Party shall be entitled to injunctive relief to prevent any such violation or any continuing violation thereof. Nevertheless, the Party shall not be liable in an action initiated by the aggrieved Party for special, indirect or consequential damages. Resulting from arising out of this Agreement, including, without limitation, loss of profit or business interruptions.

Understood and agreed, and signed by both Parties, on the date set hereinabove, in two (2) identical copies, of which the Parties have taken one (1) each.

Chapter 9: Conclusion

What we learnt

Tracking World is a platform of knowledge sharing with tremendous environment and attitude. During our project we learned many things from this professional environment and from very helpful employees of Tracking World. Sales department of tracking world is consist on 20 – 22 employees and it is necessary to mention here the attitude of sales department and respected Sir, Zahid Qureshi was very kind and helpful during our visits at Tracking World.

We also learnt the procedure and process of sales, Ahmed ali involve us in his visit / meetings with potential clients that really helps us to follow the procedure and learning how the sales department works actually. Because of these kinds of visits we are able to learn and put in the maximum information in our project by understanding the terms that use in sales.

As technical part of learning, we learnt:

1. How to bid on any project (practically).
2. How to present our product in the front of client when the client is not interested in your product and you are developing him / her interest in it.
3. How to develop the quotation documents.
4. How to negotiate with client when the interest level of client is typically on price.
5. How to initialize the project towards the planning and the process of getting approvals from chief authorities.
6. How to stick with plan and maintain the processes accordingly.

Further, we leaned a proper way to do work in professional field and looking forward to grow with our career in Project Management. We learned about the user demands and how to provide maximum facilities to the users in minimum time and resources.

Recommendation to Tracking World

As per our analysis and during our visits to the company we realized that the Tracking World has the capacity to grow with their vision and try to make their name in the top list of the tracking and telecommunication industries.

Tracking World is already good in service providing, instant response to the customer and quality of products & services so, as per our recommendations the only thing that needs to be attentively managed, that is your growth and lead the company towards the vision. They should enhance their esteemed and corporate customers to grow in market efficiently.

Feedback from Tracking World (Ahmed Ali)

I, Ahmed Ali, am working in Tracking World (Pvt) Ltd as Sales Manager in Business Development & Sales Department hereby confirms that both gentlemen i.e. Mr. Saifullah Siddiqui and Mr. Muhammad Waqas has conducted a detailed study on one of our biggest biometric project with the Government of Punjab thorough Punjab Information Technology Board.

I must admit that the flaws which were highlighted by the students could be eliminated by applying a proper plan as delivery of the hardware was lagging behind, risk factor was also omitted which could have been played a vital role if the same was considered at that time.

Now, I am of the impression that in order to execute an effective project plan we must have Project Calendar, Work Breakdown Structure, Activity List, Milestone List, Network Diagram, Critical Path, Resource Sheet, Resource Calendar, Gantt Chart, Dashboard Reports etc. in our plan.

I would like to thank either of them for conducting this case study and giving treasured suggestions which will certainly add value to our forthcoming projects.

I wish them good luck for their project and for the future endeavor as well.

Reference:

- *PMBOK 5th Edition*
- *Bahria University, Lahore.*
- *Tracking World (Pvt.) Ltd.*
- *Ahmed Ali (Sales Manager of Tracking World)*
- *Zahid Qureshi (Director of Tracking World)*
- *Shaan-e-Tahira (Ld. Human Resource of Tracking World)*
- *Punjab Information Technology Board (PITB)*