

Working at Metal Plus Ltd. as Network Operation Center (NOC) Trainee Engineer

BY

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This Report Presented in Partial Fulfillment of the Requirements for the Degree of
Bachelor of Science in Computer Science and Engineering

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DAFFODIL INTERNATIONAL UNIVERSITY

DHAKA, BANGLADESH

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APPROVAL

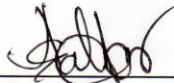
This Internship titled “Network Operation Center(NOC) Trainee Engineer”, submitted by Md. Rahimul Islam, ID No: 162-15-8115 to the Department of Computer Science and Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on 13 September.

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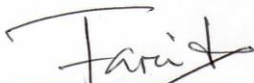
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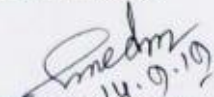
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DECLARATION

We hereby declare that, this project has been done by us under the supervision of **Ahmed Al Marouf, Lecturer, Department of CSE** Daffodil International University. We also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree or diploma.

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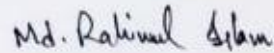
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ABSTRACT

This Internship report is aimed at providing my working experience at different areas of service at Metal Plus Limited. The report has been divided into different parts. The first part is the Introduction; Second part gives an overview of Metal Plus Ltd. discussing its mission, vision, features and managerial hierarchy. The third part is the project part which consists of a brief explanation of the Power division support at Metal Plus Ltd. Part four is focused on the findings based on my observation during my internship period. Lastly, part five is the recommendations and conclusion part. As a mandatory requirement to complete B.Sc. in Computer Science and Engineering (CSE) at, Daffodil International University this report has been written. Throughout my overall study I have mainly tried to critically review the Power Division Support of Metal Plus Limited.

TABLE OF CONTENTS

| CONTENTS | PAGE NO. |
|--|-----------------|
| ACKNOWLEDGEMENT | II |
| ABSTRACT | III |
| List of Figures | V |
| List of Tables | VI |
| CHAPTER 1: INTRODUCTION | 1 |
| 1.1 Introduction | 1 |
| 1.2 Motivation | 1 |
| 1.3 Internship Objectives | 1 |
| 1.4 Introduction to the Company | 2 |
| 1.5 Report Layout | 3 |
| CHAPTER 2: ORGANIZATION | 4 |
| 2.1 Introduction | 4 |
| 2.2 Product and Market Situation | 6 |
| 2.3 Target Group | 10 |
| 2.4 SWOT Analysis | 11 |
| 2.5 Organizational Structure | 13 |
| Chapter 3: Tasks, Projects and Activities | 14 |
| 3.1 Daily Task and Activities | 14 |
| 3.2 Events and Activities | 17 |
| 3.3 Project Task and Activities | 22 |
| 3.4 Challenges | 31 |
| Chapter 4: Competencies and Smart Plan | 32 |
| 4.1 Competencies Earned | 32 |
| 4.2 Smart Plan | 33 |
| 4.3 Reflections | 33 |
| Chapter 5: Conclusion and Future Career | 34 |
| 5.1 Discussion and Conclusion | 34 |
| 5.2 Scope for Further Career | 34 |
| References | 35 |
| Appendices | 36 |
| Appendix A: Internship Reflection | 36 |
| Appendix B: Company Detail | 36 |

List of Figures

| Figures | PAGE NO. |
|--|-----------------|
| Fig. 2.1: Introduction of Metal Plus Ltd | 5 |
| Fig. 2.2: The Metal (Pvt.) Limited | 6 |
| Fig. 2.3: The Metal AGRO Limited | 8 |
| Fig. 2.4: The Metal Plus Limited | 9 |
| Fig. 2.5: SWOT analysis | 11 |
| Fig. 2.6: Organizational structure | 13 |
| Fig. 3.1: Site Down status | 17 |
| Fig. 3.2: Site Down summary and Feedback | 18 |
| Fig. 3.3: Site voltage List | 19 |
| Fig. 3.4: Sub center voltage | 20 |
| Fig. 3.5: Down summary | 20 |
| Fig. 3.6: All circle report | 21 |
| Fig. 3.7: GP soc | 22 |
| Fig. 3.8: PG running | 23 |
| Fig. 3.9: Generator run hours | 24 |
| Fig. 3.10: Region wise PG running | 25 |
| Fig. 3.11: Site down on GP SOC | 25 |
| Fig. 3.12: Mains fails | 26 |
| Fig. 3.13: Battery alarm | 27 |
| Fig. 3.14: Alarm trends | 28 |
| Fig. 3.15: Door open | 29 |
| Fig. 3.16: Digital key | 30 |
| Fig. 3.17: Digital key site list | 30 |

List of Tables

| Table Name | Page No. |
|--|-----------------|
| Table 2.1: Company introduction | 4 |
| Table 3.2: Designation Chain of Metal Plus Ltd | 16 |

CHEPTER 1

INTRODUCTION

1.1 Introduction

For the requirement of Daffodil International University, I have completed 3 months long internship in Metal Plus Limited. The main reason for this internship is to gain knowledge about the job industry from the professional view and to expose our self in the job world. This is mandatory as it is very essential to have practical knowledge. As my major is in Engineering and Mobile communication system. Here I want to gain knowledge of the Power and Network division in our country I started my internship in Metal Plus Ltd. In these 3 months Md. Ahmed Al Marouf, Lecturer of Daffodil International University was my academic supervisor. I was approved to write my report on: “My working experience in Metal Plus Ltd.”.

1.2 Motivation

Metal plus Ltd. is doing operation and maintenance of Grameen Phone, Robi, Airtel and Bangla Link operators of Bangladesh. Metal plus also doing preventive maintenance (PM) and corrective maintenance (CM) of all mobile tower of Bangladesh. If some of areas have power problem that's areas have also network, internet problem. Then Metal plus immediately forward team to provided power in that mobile tower and keep the network for clear the mobile and internet communication system. In disaster period like Storm, flood Metal Plus team also doing very hard work by 24/7 to keep the network smooth. It's a very dedicated company in telecommunication sector, that's why I am choose this company for my internship.

1.3 Internships Objective

- As a Computer Science and Engineering graduate with an advanced knowledge of Engineering, I hope to obtain an internship with Metal Plus Ltd., which will build up from my excellent skills.

- Real life problem-solving and analytical skills could be well utilized at Metal Plus Ltd internship program. My part-time work experience and engineering studies will provide solid support to Metal Plus Ltd. power division.
- A self-motivated, hardworking graduate student in computer science, I seek an internship position at Metal Plus that will allow me to explore career options in the IT sector. I have consulted in the computer center, tutored undergraduates, and completed advanced projects relevant to this internship position.
- My experience as Trainee NOC engineer, in addition to my strong database skills, ensures I will make a positive contribution to Metal Plus Ltd. I look forward to learning from a leading Networking company that provides the opportunity to expand my knowledge as a communications major

1.4 Introduction to the Company

The Metal Private Ltd (Market Leader of Tractor industry in Bangladesh), Metal Agro Ltd, Sleek Knitwear, Jamil Engineering Ltd). From July 2008, MPL is marketing Eicher Tractors in Bangladesh. Our Market Share in this industry is around 15 %. From August 2010, MPL is marketing Diesel Generators, Powered by Eicher Engine Metal Plus Limited (MPL) was established in July 2005. It's sister s. From January 2011, MPL has started O&M activities in Telecom sectors. Presently, we are working with Grameenphone, Banglalink, Airtel Bangladesh Ltd., Huawei Technologies (BD) ltd., City cell, and Ericsson etc.

Key Management

Chairman

Engr Mr. Aminul Islam.

He is also MD of more eight companies (including Project Builders Limited)

Managing Director

Engr Mr. Sadid Jamil.

He is MD of more four companies including The Metal Private Limited

Executive Director

Lieutenant Colonel Tarequl Alam Khan (Retired), psc,

He is working in this company from July 15, 2009. He is responsible to look after overall business of the company

1.5 Report Layout

Chapter [1] in this report I have explain object of internship, Motivation of internship and introduction to the company.

Chapter [2] in this report, I have explained Metal Product and Market Situation, Achievements, Target Group, SWOT Analysis, Organizational Structure

Chapter [3] in this report, I have explained My daily tasks, event activities, challenges on Metal Plus Ltd.

Chapter [4] in this report, I have explained Competencies Earned, Reflections and smart plan

Chapter [5] in this report, I have explained future career and conclusion

CHAPTER 2

ORGANIZATION

2.1 Introduction

The word ‘Metal’ manifests hardness of bondage existing among its members of companies, its shine in works accomplished and conductivity maintained throughout building dynamic organization. The seed of Chronological progress of Metal sown in 1987.

| Year | Activities |
|------|---|
| 1987 | In November of this year, engineer Mr. Sadid Jamil and engineer jointly started their business journey with their flagship company. |
| 1992 | In mid of this year, in Bangladesh ‘The Metal (Pvt.) Limited’ changed its business track by introducing Messy Ferguson Tractors in the name of TAFE tractors, owned by Tractors and Farm Equipment (TAFE) of Chennai, India |
| 2002 | The Metal (Private) Limited took a very prudent and dynamic decision by introducing credit line for tractor buyers on its own accord |
| 2003 | In earlier of this year, Metal kept its foot point in agriculture sector by opening a company named, ‘Metal AGRO Limited’ |
| 2004 | In February, The Metal (Pvt.) Limited opened a manufacturing unit of tipping and non-tipping trailers at Langolband, Narayanganj. In the same year TMPL introduced Italy Organized world famous MASCHIO Rotavators in Bangladesh as its Sole Distributor. |
| 2008 | In February of 2008, both Metal and TMTL of India agreed to sign an agreement to introduce latter’s new brand product Eicher Tractor in Bangladesh by its sister concern ‘Metal Plus Limited’. |
| 2009 | Jamil Engineers Limited, a concern of Metal was formed in May, 2009. It was formed to act as a dealer of Bosch fuel pumps in Bangladesh and provide related services. In addition, this company manufactures various AGRO Machineries |
| 2010 | From July of this year Metal diversified its business by introducing marking of Eicher Engines powered Diesel Generators its concern Metal Plus Limited. |

| | |
|------|---|
| 2011 | From January of this year Metal stepped into Telecom sector as its service support provider through Metal Plus Limited and thereby diversified further |
| 2012 | Metal Holdings Limited, a developer company of Metal come into in mid of this year. This company started their journey by building Surf Club cum Hotel at Cox's Bazar. |
| 2017 | To meet huge demand of genuine parts of both TAFE and Eicher Tractor in Bangladesh a separate company of Metal Parts Limited was opened in April of this year. At the same time another company Metal Agritech Limited was also introduced to do marking and sales of various types of AGRO machineries in Bangladesh |

Table 2.1: Company introduction



Fig. 2.1: Introduction of Metal Plus Ltd

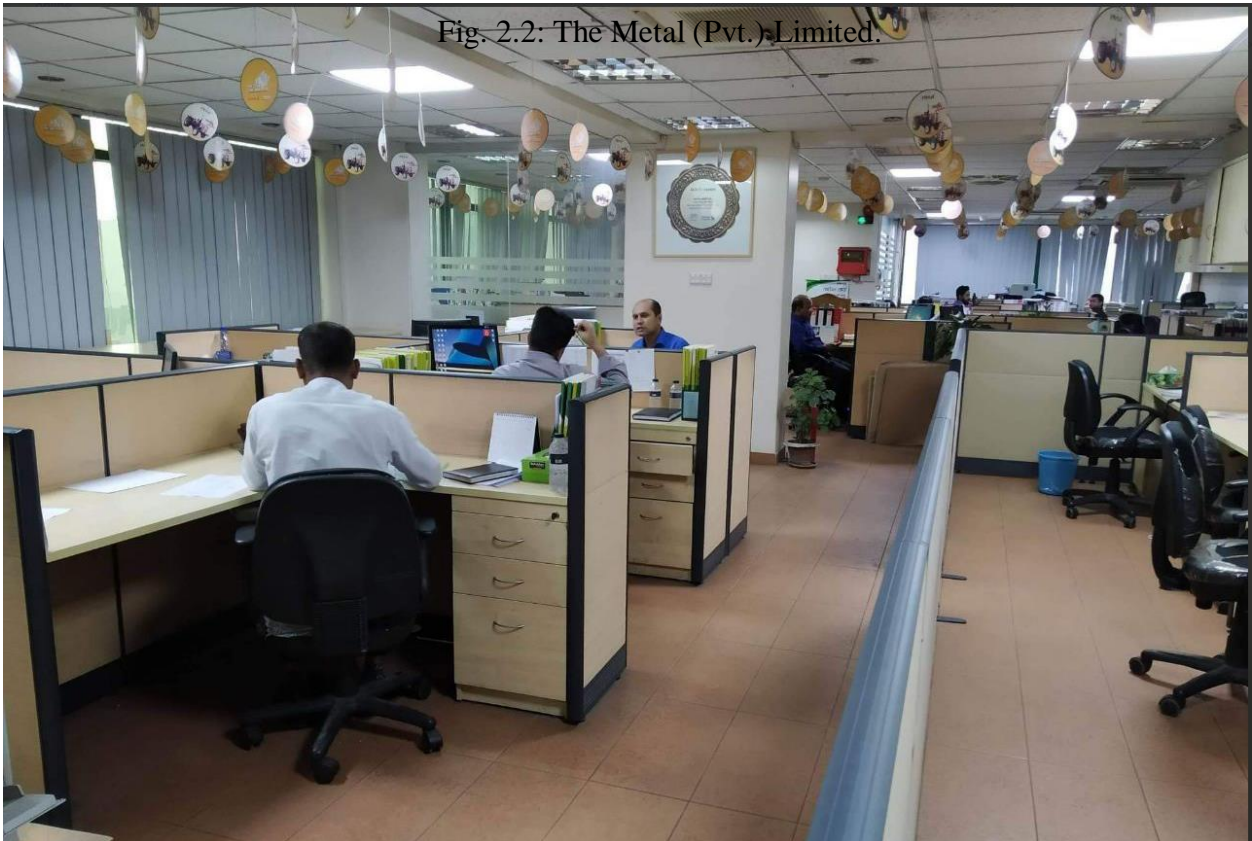
2.2 Product and Market Situation

2.2.1 The Metal (Pvt.) Limited.

Products:

The Metal (Pvt.) Limited is the exclusive dealer/distributor in Bangladesh of:

- TAFE tractors
- MASCHIO rotary Tillers
- Metal rice trans planters
- CLASS combine harvesters
- Reaper binder machines
- Metal reapers
- World combine harvester



Services

- After sales service
- Free trainings on machinery operation, machinery maintenance, and entrepreneurship for farmers and local services providers.

Creating Widespread change:

- The sale of every machine of the Metal (Pvt.) Limited can help
- Up 20 non-machine owing farmers in the community for
- Increased production via machines service support.

2.2.2 The Metal AGRO Limited

Products

- Vegetable seeds
- Rice seeds
- Maize seeds
- Oil seeds
- Pulse seeds
- Potato seeds
- Spices seeds
- Fodder seeds
- Flower seeds
- Nursery seed

Services

- Seed genetic development, with an emphasis on regional preferences, stress and disease tolerance and resistance along with yield, taste, earliness, and shelf life.
- Seed production, both hybrid and Open Pollinated (OP).
- Quality control throughout seed packing, storage, and delivery.

- Product demonstration and field days to increase product awareness and collection of direct farmer feedback.
- Feedback collection on product usage and problems from their customers via Metal's own call center.



Fig. 2.3: The Metal AGRO Limited

2.2.3 The Metal Plus Limited

Products

- Eicher tractors
- Diesel generators
- Telecommunications service support
- MASCHIO Rotavators
- Supply of Telecom Power Support items
- Combine Harvester
- Reaper



Fig. 2.4: The Metal Plus Limited

Services

- After sales services support of tractors
- After sales services support of generators
- Providing management services to mobile operators.
- After sales supports of other AGRO machineries.

2.3 Target Group

Metal Plus Ltd. look forward to become a vibrant dynamic organization and lead

The country's telecommunication sector by establishing a sound and

Cost-effective tower maintenance.

They are trying to become the largest vendor in telecom sector. They provide a very activate cost effective BTS maintenance service to every telecom group in Bangladesh.

2.2 Achievements

- Sold 750 units of diesel generators to retail and corporate clients in the last 8 years.
- Provided operations and maintenance support in more than 5,000 Base Transceiver Station (BTS) sites for large mobile operators, including Grameenphone.
- Ensured average 39% year-on-year growth of Eicher Tractors for the last 3years.
- Grew total number of staffs from 15 to 450 during the last 9 years.
- Having more than 14% of the tractors market share, up from 10% in 2013.
- By now positioned Eicher Tractors in 44 districts of Bangladesh.

2.5 SWOT Analysis

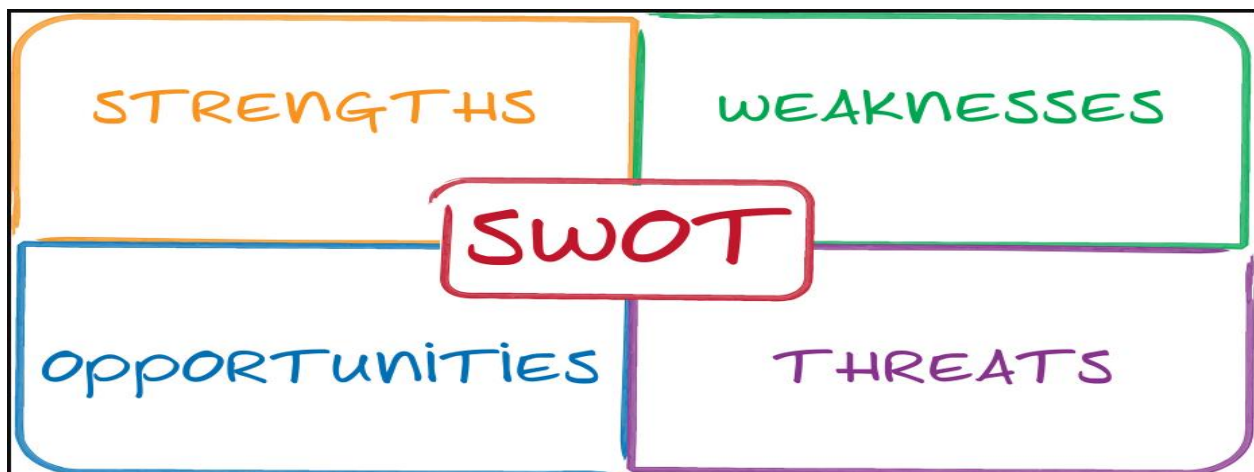


Fig.2.5: SWOT analysis [1]

Strengths

In Metal the administration groups are highly educated and experienced. The managing executives are the strengths of the Company as they have years of professional knowledge, expertise, and qualifications which helps them to work and take Metal plus Ltd. to the position it is right now.

Metal Plus Ltd. has shown spectacular growth in the profit sector.

- A remarkable revenue increase rate has already been achieved by Metal Plus Ltd.
- Metal has so many branches all over the country which offers the best service possible. All the branches are located in suitable places and they keep the branches very protected so the customers feel secured while doing services
- Vast services distinguish between Metal Plus Ltd. and other company. And customers also can choose suitable services according to their requirement.

Weaknesses

- The marketing department of Metal Plus Ltd. is very weak.
- The profit rate is very low compared to other Company.
- The way of promotion in Metal Plus Ltd. is complicated so it is one of the reasons for creating unsatisfied employees.

Opportunities

- In Power Division our company is developing and with many future opportunities for success.
- To previous history there so many projects maintain responsibility offer yet to come.
- In Power Division sector many companies want to take help from our company which is noticeable.
- Metal Plus Ltd. provided great and reliable services and sometimes offers good job opportunities for expert engineers.

Threats

Networking sector always challenging. Here always try to maintain network strictly. Cause small mistake are big issue here. In these sector losses chances are so many. That's why team always try to maintain network smoothly otherwise another company take chances.

Metal is local company so they face so many problems like skill resource, environment, fund issue is big deal here.

2.6 Organizational Structure

An organizational structure is a scheme that summaries how positive activities are absorbed in order to accomplish the goals of an association. These happenings can include instructions, roles, and household tasks. The organizational structure also controls how material flows between stages within the corporation.

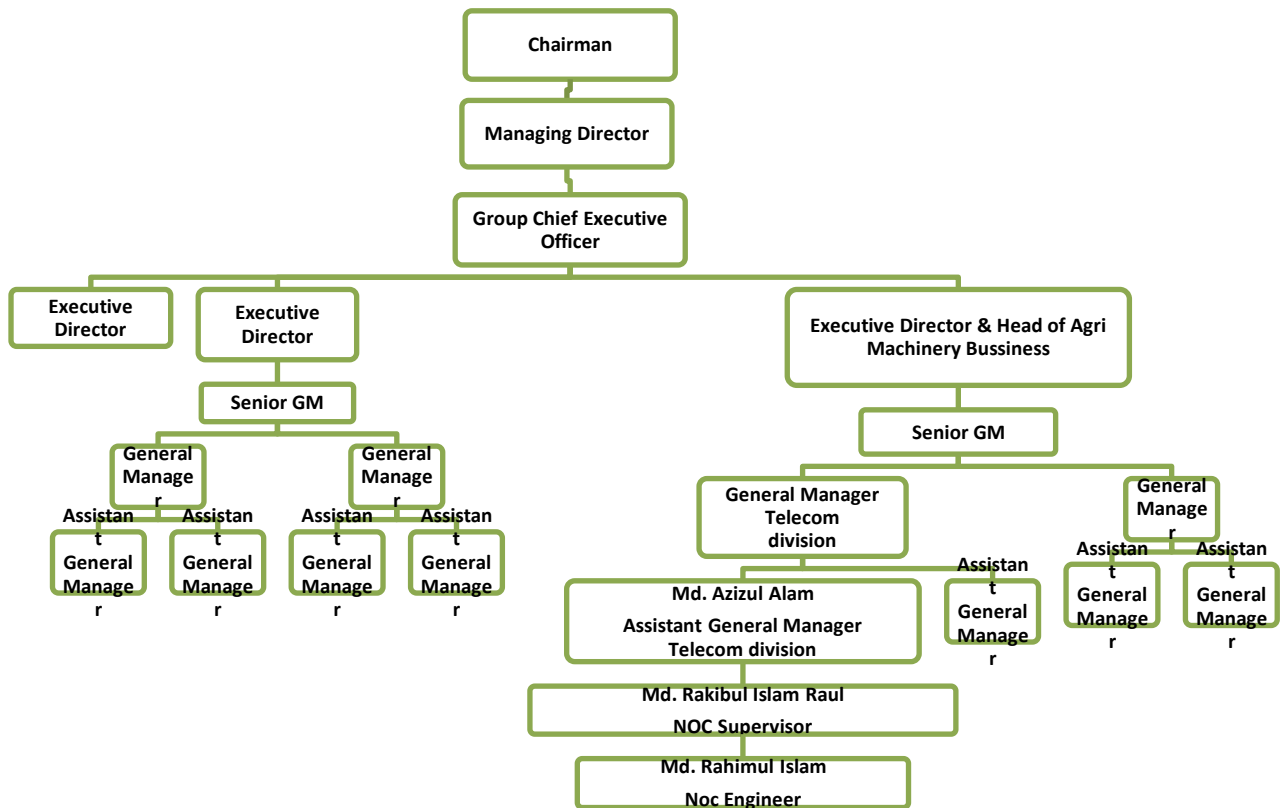


Fig.2.6: Organizational structure

CHAPTER 3

TASKS, PROJECTS AND ACTIVITIES

3.1 Daily Task and Activities

At first NOC supervisor and NOC engineer discuss their working procedure, how to work, what step we need to follow to maintain network stable.

They have taught and introduce with me some basic topics: such as tools we need to monitor their network.

In this sector some command and IP based related so they discuss about that and slowly they introduce with command which are very essential to monitoring network sector.

There are lots of alarm which are strictly needs to monitor and they provide importance of alarm and their priority.

Metal plus NOC mainly monitoring GP and Robi network.

So, First Month of my internship period they discuss GP map, X bot, GP SOC which are essential to monitoring GP network and they discuss in Bangladesh which area they coverage. They are Mainly Monitoring Dhaka Zone, Rajshahi Zone, Sylhet zone. In Robi Network they monitoring Rajshahi zone, and Banglalink network they maintain Sylhet

In second Month, they discuss sites differences

There is different type of sites-

CP site

Commercial Power dependent site those sites are basically depends commercial power if commercial power is not available site are down. CP site denoted as Package 1

CP and AG site

Those sites are mainly depending commercial power and Automatic generator. When commercial power not available automatic generator running. CP and AG site denoted as Package 2

NCP site

NO Commercial power available or solar and automatic generator power tower those sites are known as NCP site. NCP site denoted Package 3

ISS site

ISS site is mainly two site dc power share those sites are basically power share different types of network as like GP and Robi dc power share. Which site denoted as Package 4

They discuss which site are connected site, those sites are known as

- A class sites.
- B class sites
- C class sites

The third month are so critical and working pressure month because last two month they discuss their working procedure and how to maintain their works so real-life working procedure are now started. Third month they provide their packages list Every site name with details Hub site and IPBH sites names.

In every region have Regional Manager they are known as RM. In every Region there are many subs centers each sub center have Zonal Manager they are known as ZM. Basically, zone operation control by ZM. And they provide current status every site which are so valuable to maintain network.

We provide real time update and share with them and they monitoring so quickly. Because any critical issue we provide and share they Check and take necessary step. At last RM acknowledge

those issue and also AGM. Those are the challenging issue which need to take step as early as possible within a short time.

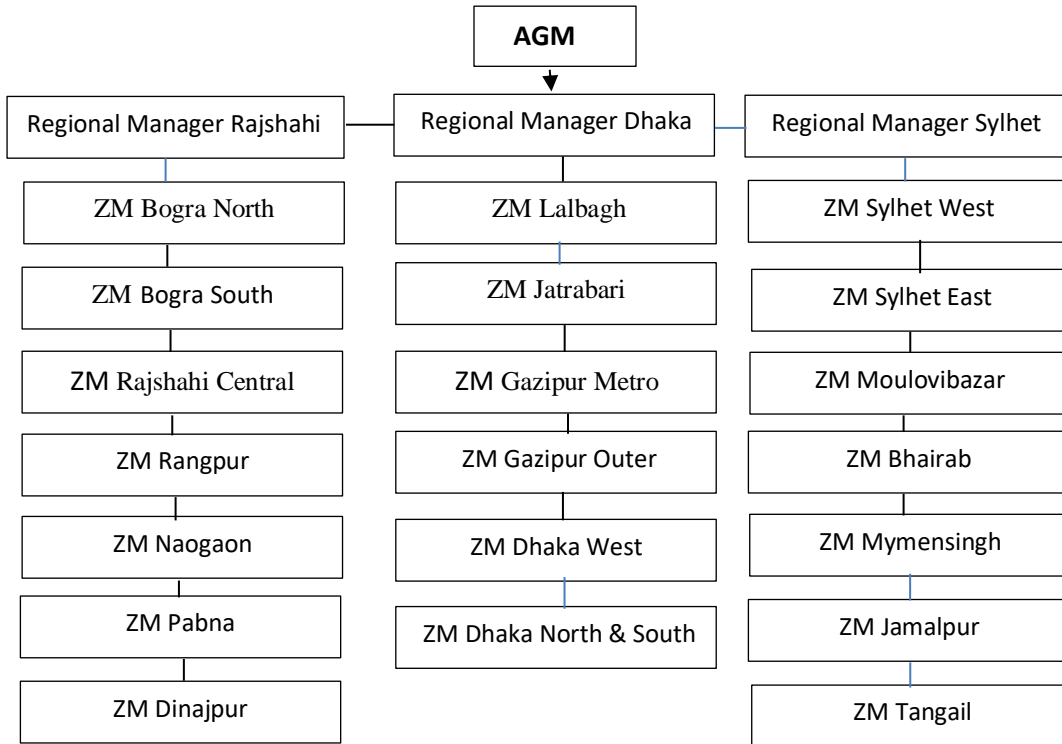


Table 3.1: Designation Chain of Metal Plus Ltd.

Month of Four are trainee NOC Engineer has to come end because now company and myself believe that I can maintain all criteria and step to maintain network monitoring.

They provide full access of terminal and working with GP and Robi team.

Now I can capable to access GP and Robi terminal smoothly they provide a desk to control monitoring network

3.2 Events and Activities

- Check currents Down status-

Most Visited Getting Started Google অনুরাদ

SITE Down: 60, Time: 29-Jul-2019 10:17

Region / SubCenter: (All..) BTS Down: 60, Site Down: 60 [Get Excel File](#) [Goto Map](#)

| SiteCode | SubCenter | Region | EventTime | Comments | Category | Priority |
|-------------|---------------|------------|----------------------|-------------------|----------|----------|
| CGSLK1_0109 | CG_WEST | CHITTAGONG | 29-Jul-2019 10:11 AM | BATT,GR | | |
| BHNBZ1_0109 | BHOLA | KHULNA | 29-Jul-2019 10:07 AM | MF,DOWN2,DVS | Z3 | 5 |
| BHNBZ1_0109 | BHOLA | KHULNA | 29-Jul-2019 10:07 AM | DOWN2 | | |
| BHKCH1_0109 | BHOLA | KHULNA | 29-Jul-2019 10:07 AM | DVS,DOWN2,BATT,DR | | 7 |
| CMBRR2_0109 | COMILLA_METRO | CHITTAGONG | 29-Jul-2019 10:07 AM | DR,MF | | |
| LXKRH1_0109 | CHANDPUR | CHITTAGONG | 29-Jul-2019 10:07 AM | BATT,MF | | 1 |
| CGHTZ6_0109 | CG_WEST | CHITTAGONG | 29-Jul-2019 10:07 AM | OML Fault | | |
| BHLHD1_0109 | BHOLA | KHULNA | 29-Jul-2019 10:07 AM | DOWN | | 5 |
| BHBNG1_0109 | BHOLA | KHULNA | 29-Jul-2019 10:06 AM | DOWN | Z3 | 1 |
| KGSKN1_0109 | RANGPUR | RAJSHAHI | 29-Jul-2019 10:04 AM | MF,DOWN,BATT | | |
| MYNDL4_0109 | MYMENSINGH | SYLHET | 29-Jul-2019 10:04 AM | DOWN | | 3 |
| KUAKR2_0109 | KUSHTIA | KHULNA | 29-Jul-2019 10:00 AM | DOWN2,RF | | |
| KUHZR1_0109 | KUSHTIA | KHULNA | 29-Jul-2019 10:00 AM | DOWN | | |
| CGBLR1_0109 | CG_CENTRAL | CHITTAGONG | 29-Jul-2019 09:55 AM | BATT,MF | = | 10 |
| BHUNT3_0109 | BHOLA | KHULNA | 29-Jul-2019 09:52 AM | DOWN,MF | | 1 |
| CMERA1_0109 | COMILLA_METRO | CHITTAGONG | 29-Jul-2019 09:41 AM | DR,AVI,BATT | | 5 |
| CMPSR1_0109 | COMILLA_METRO | CHITTAGONG | 29-Jul-2019 09:41 AM | OML Fault | | |
| SYDOB2_0109 | SYLHET_EAST | SYLHET | 29-Jul-2019 09:36 AM | BATT,DOWN2 | | |
| MDPTR1_0109 | FARIDPUR | KHULNA | 29-Jul-2019 09:33 AM | DOWN2,RF,DR,BATT | = | 10 |
| FPVTD1_0109 | FARIDPUR | KHULNA | 29-Jul-2019 09:22 AM | MF,BATT,DOWN,DC | | 7 |
| SNTGR1_0109 | SYLHET_WEST | SYLHET | 29-Jul-2019 09:05 AM | RF,BATT,DOWN2,DR | Z3 | 4 |
| DHTJG5_0109 | DH_SOUTH | DHAKA | 29-Jul-2019 08:53 AM | BATT,DOWN2,MF | Z2 | 1 |
| PTDUL1_0109 | PATUAKHALI | KHULNA | 29-Jul-2019 08:46 AM | MF,DR,DOWN,BATT | | 7 |
| CMMGJ1_0109 | COMILLA_METRO | CHITTAGONG | 29-Jul-2019 08:43 AM | MF,AVI,BATT | | 7 |
| LXSKT1_0109 | CHANDPUR | CHITTAGONG | 29-Jul-2019 08:39 AM | OML Fault | | |
| TNBKR1_0109 | TANGAIL | SYLHET | 29-Jul-2019 08:38 AM | DOWN,BATT,AVI,MF | | 1 |
| TNKCL1_0109 | TANGAIL | SYLHET | 29-Jul-2019 08:36 AM | DR,DOWN | | |
| PTTK1_0109 | PATUAKHALI | KHULNA | 29-Jul-2019 08:21 AM | DOWN,DC,MF,BATT | | |
| TNSGD3_0109 | TANGAIL | SYLHET | 29-Jul-2019 08:15 AM | DOWN,BATT,MF,RF | Z2 | 5 |
| BSASK2_0109 | BARISAL | KHULNA | 29-Jul-2019 08:11 AM | MF,RF,DOWN2,BATT | | 1 |
| MYSKC1_0109 | BHAIRAB | SYLHET | 29-Jul-2019 08:10 AM | DVS,DR,DOWN2 | | 5 |
| MYSIS1_0109 | MYMENSINGH | SYLHET | 29-Jul-2019 08:10 AM | DR,MF,DOWN | | |
| BGCNG1_0109 | KHULNA_EAST | KHULNA | 29-Jul-2019 07:50 AM | DOWN2 | | |
| LXMBB1_0109 | CHANDPUR | CHITTAGONG | 29-Jul-2019 07:47 AM | OML Fault | | 1 |
| DHSQB1_0109 | GAZIPUR_METRO | DHAKA | 29-Jul-2019 07:33 AM | BATT,DOWN2,MF | | |
| SYAMB2_0109 | SYLHET_WEST | SYLHET | 29-Jul-2019 07:25 AM | DOWN2,DVS,BATT,MF | Z3 | 1 |
| CMASB1_0109 | COMILLA_METRO | CHITTAGONG | 29-Jul-2019 07:17 AM | MF,BATT | | |
| BSSMT1_0109 | BARISAL | KHULNA | 29-Jul-2019 06:49 AM | DOWN,BATT,DRAG | | 5 |
| GPBDV1_0109 | GAZIPUR_OUTER | DHAKA | 29-Jul-2019 06:28 AM | DOWN | | |
| DHFU1M_0109 | LALBAG | DHAKA | 29-Jul-2019 05:28 AM | DOWN | = | 10 |

Fig. 3.1: Site down Status.

- Try to up site and give a feedback-

| Down summary @ 14:00 hrs. | | | | | | | | |
|---------------------------|---------------|----------|----------------|----------------|------------|------------|-----------|--|
| Site Code | Sub Center | Region | Event Time | Connected Site | Power Type | Site Class | Package | Update |
| DHPLBN | DH_WEST | DHAKA | 5/20/2019 1:47 | 1 | CP | B | Package 1 | 24 Hr. access restricted |
| GPKNBC | GAZIPUR_METRO | DHAKA | 8/4/2019 12:48 | 8 | CP | B | Package 1 | 24 hrs Access restricted by H/O |
| GPNVR1 | GAZIPUR_METRO | DHAKA | 8/4/2019 6:35 | 1 | ISS | C | Package 5 | 24 Hr. PG run restricted by H/O and Local people |
| GPTONS | GAZIPUR_METRO | DHAKA | 8/4/2019 10:30 | 6 | CP | B | Package 1 | 24 Hr. PG run restricted by Local people |
| GPAC1I | GAZIPUR_OUTER | DHAKA | 8/4/2019 13:35 | 1 | CP | C | Package 1 | Mr.Rezaul OTW. ERT:16:00, site to site |
| GPKPL1 | GAZIPUR_OUTER | DHAKA | 8/4/2019 12:48 | 1 | CP | C | Package 1 | Mr.Razaul OTW. ERT:15:30 |
| GPLHG1 | GAZIPUR_OUTER | DHAKA | 8/4/2019 13:32 | 1 | ISS | C | Package 5 | Down for other issue |
| GPAN1 | GAZIPUR_OUTER | DHAKA | 8/4/2019 13:03 | 1 | CP | C | Package 1 | Down for other issue |
| GPRCT3 | GAZIPUR_OUTER | DHAKA | 8/4/2019 12:55 | 1 | CP | C | Package 1 | Mr.Kayrul OTW. ERT:15:30 |
| DHDHRC | LALBAG | DHAKA | 8/4/2019 13:43 | 5 | CP | C | Package 1 | Mr Polash OTW. ERT:14:40 |
| MNMGL1 | LALBAG | DHAKA | 8/4/2019 12:45 | 2 | CP | C | Package 1 | Mr.Akram OTW. ERT: 15:00, Site to site move |
| SGRNG1 | BOGRA_SOUTH | RAJSHAHI | 8/4/2019 12:21 | 1 | CP | C | Package 1 | Mr. Rubel on the way. ERT. 14:30 hrs |
| RSMND1 | RAJ_CENTRAL | RAJSHAHI | 8/4/2019 13:49 | 1 | CP | C | Package 1 | Down for others issue |
| KSITN1 | BHAIRAB | SYLHET | 8/4/2019 11:37 | 3 | CP+AG | C | Package 2 | Md.Babu OTW.ERT:15:00 hrs due to remote site |
| KSKAR4 | BHAIRAB | SYLHET | 8/4/2019 12:31 | 1 | CP | C | Package 1 | Md.Sumon OTW.ERT:14:40 hrs |
| HGASA2 | MOULOVIBAZAR | SYLHET | 8/4/2019 13:35 | 2 | CP | C | Package 1 | Md.Anower OTW.ERT:14:45 hrs |
| MYJPK1 | MYMENSINGH | SYLHET | 8/4/2019 13:56 | 1 | CP | C | Package 1 | Md.Choto Jahid OTW.ERT:16:00 hrs |
| MYKPM1 | MYMENSINGH | SYLHET | 8/4/2019 13:25 | 1 | CP | C | Package 1 | Md.Jahid OTW.ERT:15:40 hrs |
| SYSAL1 | SYLHET_EAST | SYLHET | 8/4/2019 13:35 | 4 | CP | C | Package 1 | GP Vendor working at site |
| TNINJ2 | TANGAIL | SYLHET | 8/4/2019 12:40 | 1 | CP | C | Package 1 | Mr.Uzzal working at site |
| TNTWN7 | TANGAIL | SYLHET | 8/4/2019 13:18 | 1 | CP | B | Package 1 | Md.Habib working at site |

Fig 3.2: Site Down summary and Feedback.

- Check current voltage status-

Most Visited Getting Started Google অনুবাদ

Total Alarm: 101, Time: 29-Jul-2019 10:0 AM

Region / SubCenter: (All.) Filtered Alarm: 101 [Get Excel File](#) [Goto Map](#)

| SiteCode | SubCenter | Region | EventTime | Comments | Vendor | Priority |
|-------------|-----------------------|--------|----------------------|----------------------------------|--------|----------|
| SPKTP1_0109 | FARIDPUR | KHULNA | 29-Jul-2019 10:04 AM | Volt=46.9, MF@ | Huawei | 7 |
| SPPLC1_0109 | FARIDPUR | KHULNA | 29-Jul-2019 10:04 AM | Volt=45, MF@29-Jul-19 09:02 AM | Huawei | 5 |
| SPGRS1_0109 | FARIDPUR | KHULNA | 29-Jul-2019 10:04 AM | Volt=46.9, MF@ | Huawei | 1 |
| MDLHP1_0109 | FARIDPUR | KHULNA | 29-Jul-2019 10:04 AM | Volt=46.9, MF@ | | |
| MDMLH1_0109 | BARISAL | KHULNA | 29-Jul-2019 10:04 AM | Volt=46.2, MF@ | Huawei | 7 |
| KHNAVM_0109 | KHULNA_EAST | KHULNA | 29-Jul-2019 10:04 AM | Volt=25.7, MF@ | Huawei | 1 |
| JSADP1_0109 | JESSORE | KHULNA | 29-Jul-2019 10:04 AM | Volt=46.5, MF@ | Huawei | 7 |
| CDDMHT_0109 | JESSORE | KHULNA | 29-Jul-2019 10:04 AM | Volt=44.7, MF@ | Huawei | 7 |
| BSTRK2_0109 | BARISAL | KHULNA | 29-Jul-2019 10:04 AM | Volt=35.2, MF@ | Huawei | 6 |
| BRLPB1_0109 | PATUAKHALI | KHULNA | 29-Jul-2019 10:04 AM | Volt=46.2, MF@ | | |
| BRGPK1_0109 | PATUAKHALI | KHULNA | 29-Jul-2019 10:04 AM | Volt=46.9, MF@ | | |
| BHMZK1_0109 | BARISAL | KHULNA | 29-Jul-2019 10:04 AM | Volt=45.5, MF@29-Jul-19 09:28 AM | Huawei | 5 |
| BHCJN1_0109 | BARISAL | KHULNA | 29-Jul-2019 10:04 AM | Volt=45.6, MF@ | | |
| TNSLK1_0109 | TANGAIL | SYLHET | 29-Jul-2019 10:04 AM | Volt=46.9, MF@ | Huawei | 5 |
| TNKRL1_0109 | TANGAIL | SYLHET | 29-Jul-2019 10:04 AM | Volt=46.9, MF@ | Huawei | 7 |
| TNANH1_0109 | TANGAIL | SYLHET | 29-Jul-2019 10:04 AM | Volt=44.7, MF@29-Jul-19 10:15 AM | Huawei | 10 |
| SYSAD3_0109 | SYLHET_EAST | SYLHET | 29-Jul-2019 10:04 AM | Volt=46.5, MF@ | Huawei | 10 |
| SYLAM2_0109 | SYLHET_WEST | SYLHET | 29-Jul-2019 10:04 AM | Volt=46.2, MF@ | Huawei | 10 |
| SYBLB1_0109 | SYLHET_EAST | SYLHET | 29-Jul-2019 10:04 AM | Volt=46.5, MF@ | | |
| SRCMR1_0109 | JAMALPUR | SYLHET | 29-Jul-2019 10:03 AM | Volt=46.5, MF@ | Huawei | 7 |
| SNNKLA_0109 | SYLHET_WEST | SYLHET | 29-Jul-2019 10:03 AM | Volt=46.8, MF@ | | |
| SNNKL1_0109 | SYLHET_WEST | SYLHET | 29-Jul-2019 10:03 AM | Volt=44.7, MF@29-Jul-19 09:57 AM | Huawei | 5 |
| NSMLB1_0109 | GAZIPUR_OUTER | DHAKA | 29-Jul-2019 10:03 AM | Volt=46.9, MF@ | Huawei | 5 |
| KSSUK1_0109 | BHAIRAB | SYLHET | 29-Jul-2019 10:03 AM | Volt=46.9, MF@ | Huawei | 7 |
| MBAMR1_0109 | MOULOVIBAZAR | SYLHET | 29-Jul-2019 10:03 AM | Volt=46.2, MF@ | Huawei | 1 |
| KSPOP1_0109 | BHAIRAB | SYLHET | 29-Jul-2019 10:03 AM | Volt=45.9, MF@ | | |
| KSKAL1_0109 | BHAIRAB | SYLHET | 29-Jul-2019 10:03 AM | Volt=44.7, MF@ | Huawei | 1 |
| KSHAZ1_0109 | BHAIRAB | SYLHET | 29-Jul-2019 10:03 AM | Volt=46.2, MF@ | Huawei | 10 |
| KSKAL2_0109 | BHAIRAB | SYLHET | 29-Jul-2019 10:03 AM | Volt=46.2, MF@ | Huawei | 7 |
| KSKAL4_0109 | BHAIRAB | SYLHET | 29-Jul-2019 10:03 AM | Volt=46.9, MF@ | Huawei | 10 |
| GPRCT3_0109 | GAZIPUR | DHAKA | 29-Jul-2019 10:03 AM | Volt=46.9, MF@29-Jul-19 08:02 AM | Huawei | 6 |
| GPRJB4_0109 | GAZIPUR_OUTER | DHAKA | 29-Jul-2019 10:03 AM | Volt=44, MF@ | Huawei | 6 |
| DHLGEI_0109 | DHAKA IBS & MICROCELL | DHAKA | 29-Jul-2019 10:03 AM | Volt=46.2, MF@ | Huawei | 9 |
| RPTRM2_0109 | RANGPUR | BOGRA | 29-Jul-2019 10:02 AM | Volt=46.9, MF@ | Huawei | 2 |
| RPMED4_0109 | RANGPUR | BOGRA | 29-Jul-2019 10:02 AM | Volt=46.9, MF@ | | |
| RPISP1_0109 | RANGPUR | BOGRA | 29-Jul-2019 10:02 AM | Volt=46.9, MF@ | Huawei | 2 |
| RPMED2_0109 | RANGPUR | BOGRA | 29-Jul-2019 10:02 AM | Volt=43.8, MF@ | Huawei | 2 |
| RPCOB1_0109 | RANGPUR | BOGRA | 29-Jul-2019 10:02 AM | Volt=46.2, MF@ | Huawei | 2 |
| PGBBR1_0109 | DINAJPUR | BOGRA | 29-Jul-2019 10:02 AM | Volt=46.2, MF@ | Huawei | 5 |
| NTKDB1_0109 | RAJ_CENTRAL | BOGRA | 29-Jul-2019 10:02 AM | Volt=45.5, MF@ | Huawei | 6 |

Fig 3.3: Site voltage List.

- Take a step and provide information to sub center
- Using X bot in telegram to collect actual update.

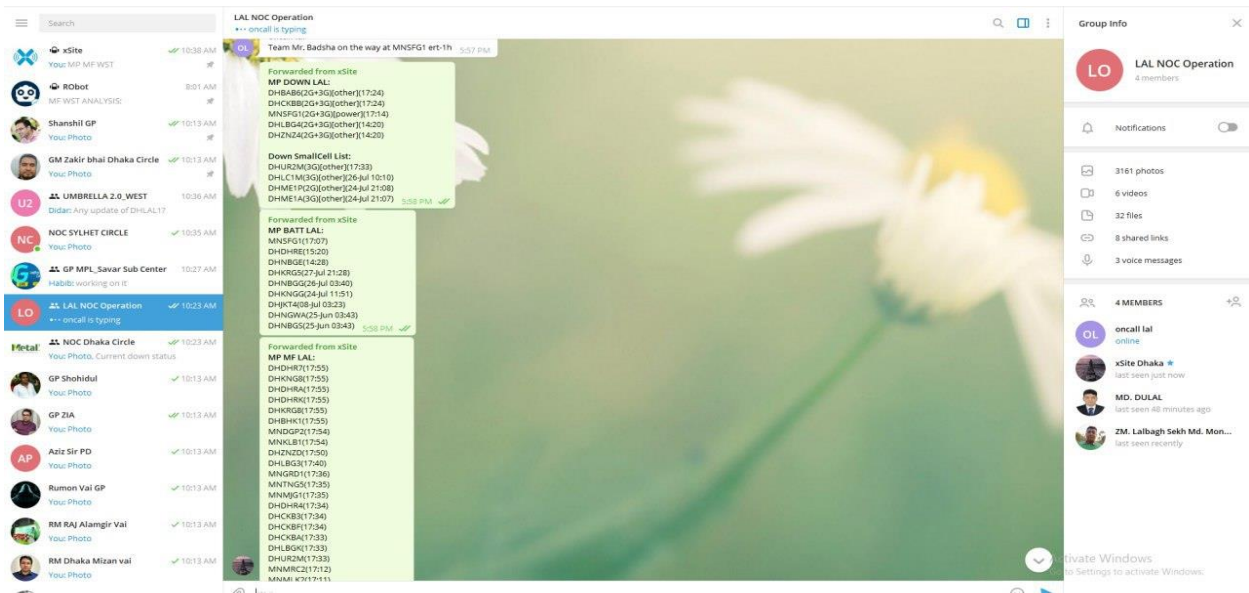


Fig 3.4: Sub-center wise voltage.

- Provided down summary

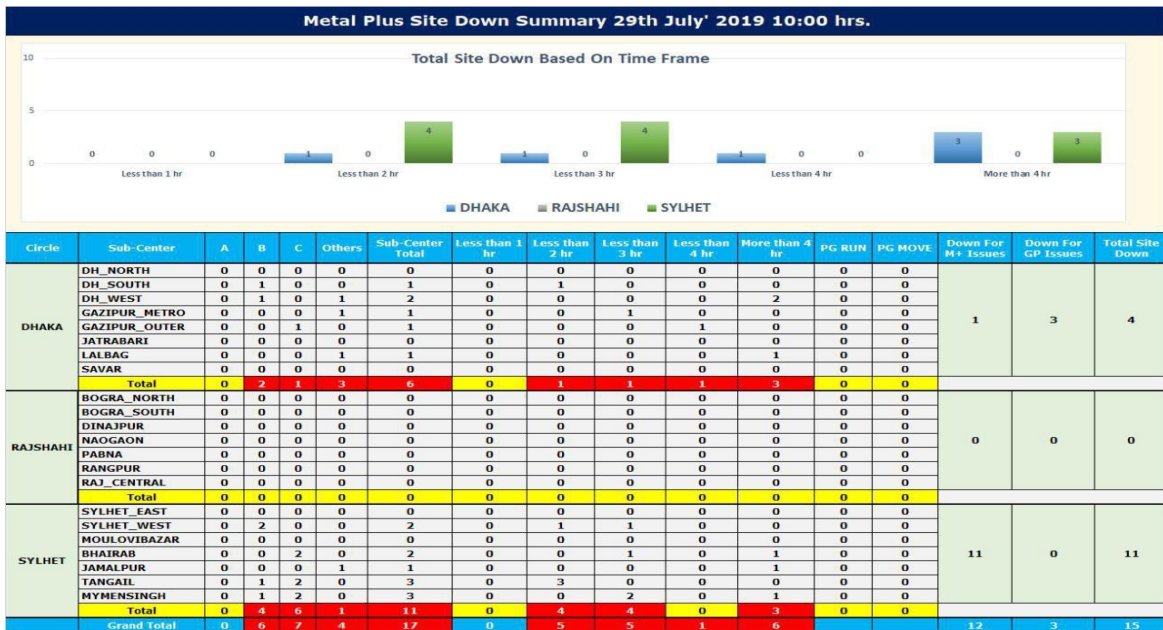


Fig 3.5: Down summary.

- Current status of All circle-

| DHAKA CIRCLE | | | | | | | | | | |
|-----------------|------------------|------------|---------------|-----------|--------------|-----------------|----------------------|------------|------------|--------------|
| Sub center | Total site count | Mains fail | Battery alarm | Site down | No of PG run | No of PG moving | Next 1 hrs PG deploy | Total PG | Idle PG | AG site down |
| GAZIPUR METRO | 244 | 2 | 1 | 0 | 0 | 0 | 0 | 15 | 15 | 0 |
| GAZIPUR OUTER | 386 | 5 | 2 | 1 | 0 | 1 | 0 | 33 | 32 | 1 |
| JATRABARI | 398 | 5 | 1 | 0 | 0 | 0 | 0 | 10 | 10 | 0 |
| LALBAG | 448 | 7 | 3 | 1 | 0 | 0 | 0 | 20 | 20 | 0 |
| DH_SOUTH | 369 | 1 | 2 | 0 | 0 | 0 | 0 | 4 | 4 | 0 |
| DH_NORTH | 294 | 0 | 1 | 0 | 0 | 0 | 0 | 3 | 3 | 0 |
| DH_WEST | 453 | 1 | 1 | 4 | 0 | 1 | 0 | 4 | 3 | 1 |
| SAVAR | 374 | 3 | 1 | 0 | 0 | 0 | 0 | 25 | 25 | 0 |
| Total PG | 2966 | 24 | 12 | 6 | 0 | 2 | 0 | 114 | 112 | 2 |
| SYLHET CIRCLE | | | | | | | | | | |
| Sub center | Total site count | Mains fail | Battery alarm | Site down | No of PG run | No of PG moving | Next 1 hrs PG deploy | Total PG | Idle PG | AG site down |
| BHAIRAB | 367 | 38 | 27 | 8 | 1 | 6 | 2 | 45 | 38 | 0 |
| JAMALPUR | 234 | 33 | 6 | 0 | 1 | 2 | 2 | 26 | 23 | 0 |
| MOULOVI BAZAR | 441 | 49 | 20 | 0 | 0 | 1 | 0 | 43 | 42 | 0 |
| MYMENSINGH | 541 | 65 | 27 | 0 | 2 | 5 | 1 | 44 | 37 | 0 |
| SYLHET_EAST | 367 | 43 | 25 | 0 | 0 | 1 | 0 | 35 | 34 | 0 |
| SYLHET_WEST | 284 | 36 | 15 | 0 | 0 | 4 | 1 | 30 | 26 | 1 |
| TANGAIL | 380 | 32 | 14 | 0 | 0 | 2 | 0 | 44 | 42 | 0 |
| Total PG | 2614 | 296 | 134 | 8 | 4 | 21 | 6 | 267 | 242 | 1 |
| RAJSHAHI CIRCLE | | | | | | | | | | |
| Sub Center | Total Site Count | Mains fail | Battery Alarm | Site down | No of PG run | No of PG moving | Next 1 hrs PG deploy | Total PG | Idle PG | AG site down |
| Bogra North | 358 | 22 | 0 | 0 | 0 | 0 | 0 | 25 | 25 | 0 |
| Bogra South | 435 | 22 | 1 | 0 | 0 | 0 | 0 | 30 | 30 | 0 |
| Rajshahi | 625 | 17 | 0 | 0 | 0 | 0 | 0 | 30 | 30 | 0 |
| Naogaon | 306 | 32 | 0 | 0 | 0 | 0 | 0 | 20 | 20 | 0 |
| Pabna | 241 | 2 | 1 | 1 | 0 | 1 | 0 | 17 | 16 | 0 |
| Rangpur | 567 | 22 | 4 | 2 | 0 | 0 | 0 | 30 | 30 | 0 |
| Dinajpur | 440 | 23 | 0 | 0 | 0 | 1 | 0 | 27 | 26 | 0 |
| Total | 2972 | 140 | 6 | 3 | 0 | 2 | 0 | 179 | 177 | 0 |

Fig. 3.6: Circle wise report.

3.3 Project Task and Activities

- Always check GP SOC-



Fig. 3.7: GP SOC.

- Current PG running status-

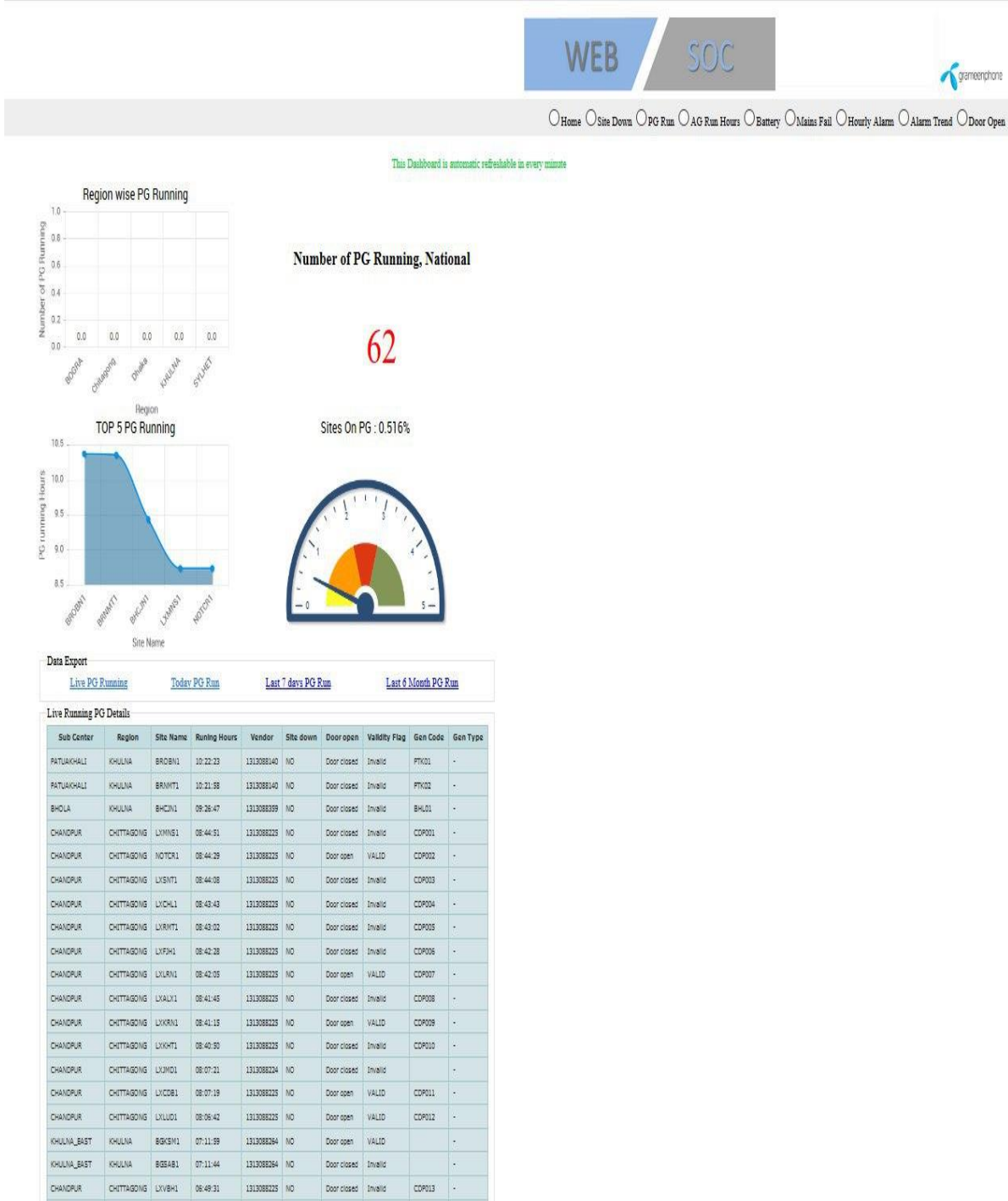



Fig. 3.8: PG running.

- Generator Run Hours-

WEB / SOC



Home
 Site Down
 PG Run
 AG Run Hours
 Battery
 Mains Fail
 Hourly Alarm
 Alarm Trend
 Door Open

Generator Run Hours Export

Start date : End Date :

Data Export

[Export Running Gen List](#)

Last Hours Alarm Details

| Sub Center | Region | Site Name | Event Time | Alarm | Vendor | Duration |
|---------------|------------|-----------|---------------------|-------------------|--------|----------|
| GAZIPUR | DHAKA | GPKPSF | 2019-7-29 9.9.29.0 | GENERATOR RUNNING | Huawei | 00:51:33 |
| TANGAIL | SYLHET | TNGTL1 | 2019-7-29 9.8.15.0 | GENERATOR RUNNING | Huawei | 00:52:47 |
| BOGRA_SOUTH | BOGRA | BOGBB1 | 2019-7-29 9.6.39.0 | GENERATOR RUNNING | Huawei | 00:54:23 |
| CG_WEST | CHITTAGONG | CGISP2 | 2019-7-29 9.6.19.0 | GENERATOR RUNNING | null | 00:54:43 |
| BHAIRAB | SYLHET | MYGGS5 | 2019-7-29 9.57.29.0 | GENERATOR RUNNING | Huawei | 00:03:33 |
| PATUAKHALI | KHULNA | PTDSM1 | 2019-7-29 9.56.59.0 | GENERATOR RUNNING | Huawei | 00:04:03 |
| MYMENSINGH | SYLHET | NKSHL1 | 2019-7-29 9.56.25.0 | GENERATOR RUNNING | null | 00:04:37 |
| CHANDPUR | CHITTAGONG | LXPLP1 | 2019-7-29 9.55.20.0 | GENERATOR RUNNING | Huawei | 00:05:42 |
| FARIDPUR | KHULNA | FPBRK1 | 2019-7-29 9.54.47.0 | GENERATOR RUNNING | Huawei | 00:06:15 |
| GAZIPUR_METRO | DHAKA | GPSRD1 | 2019-7-29 9.5.32.0 | GENERATOR RUNNING | Huawei | 00:55:30 |
| CHOIWMOHONI | CHITTAGONG | NOSGB1 | 2019-7-29 9.49.48.0 | GENERATOR RUNNING | Huawei | 00:11:14 |
| FARIDPUR | KHULNA | GGKSN2 | 2019-7-29 9.47.9.0 | GENERATOR RUNNING | Huawei | 00:13:53 |
| RAJ_CENTRAL | BOGRA | NWMBP1 | 2019-7-29 9.47.51.0 | GENERATOR RUNNING | Huawei | 00:13:11 |
| RAJ_CENTRAL | BOGRA | NWBRK1 | 2019-7-29 9.47.49.0 | GENERATOR RUNNING | Huawei | 00:13:13 |
| CHANDPUR | CHITTAGONG | LXSVT1 | 2019-7-29 9.47.46.0 | GENERATOR RUNNING | Huawei | 00:13:16 |
| COMILLA_METRO | CHITTAGONG | CMGFL1 | 2019-7-29 9.46.7.0 | GENERATOR RUNNING | Huawei | 00:14:55 |
| BARISAL | KHULNA | BSSVT1 | 2019-7-29 9.46.18.0 | GENERATOR RUNNING | Huawei | 00:14:44 |
| NOAKHALI | CHITTAGONG | NODSB1 | 2019-7-29 9.46.15.0 | GENERATOR RUNNING | null | 00:14:47 |
| SYLHET_WEST | SYLHET | SNSMC1 | 2019-7-29 9.43.54.0 | GENERATOR RUNNING | Huawei | 00:17:08 |
| NOAKHALI | CHITTAGONG | NOHTA3 | 2019-7-29 9.43.34.0 | GENERATOR RUNNING | Huawei | 00:17:28 |
| BARISAL | KHULNA | PPTSKT | 2019-7-29 9.42.40.0 | GENERATOR RUNNING | Huawei | 00:18:22 |
| CHANDPUR | CHITTAGONG | CPMKD1 | 2019-7-29 9.42.17.0 | GENERATOR RUNNING | Huawei | 00:18:45 |
| COMILLA_OUTER | CHITTAGONG | CMNB81 | 2019-7-29 9.41.3.0 | GENERATOR RUNNING | null | 00:19:59 |
| CHOIWMOHONI | CHITTAGONG | LXADP1 | 2019-7-29 9.4.57.0 | GENERATOR RUNNING | Huawei | 00:56:05 |
| NOAKHALI | CHITTAGONG | NOSGR1 | 2019-7-29 9.39.8.0 | GENERATOR RUNNING | Huawei | 00:21:54 |
| NOAKHALI | CHITTAGONG | NOCKL1 | 2019-7-29 9.38.25.0 | GENERATOR RUNNING | null | 00:22:37 |
| COMILLA_OUTER | CHITTAGONG | CMOKN1 | 2019-7-29 9.37.4.0 | GENERATOR RUNNING | Huawei | 00:23:58 |

Fig 3.9: Generator run hours.

- Region wise PG running-

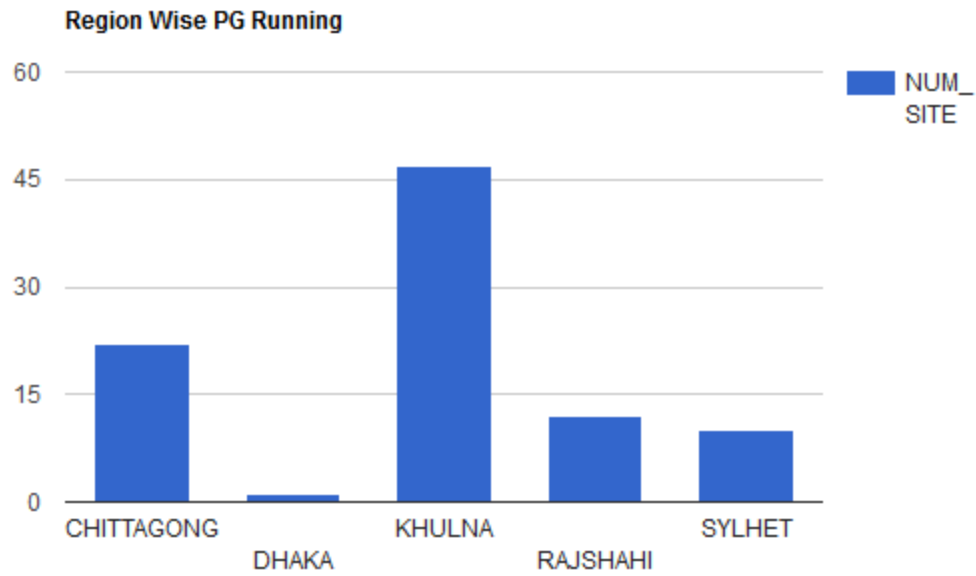


Fig. 3.10: Region wise PG running.

- Site Down status on GP SOC-

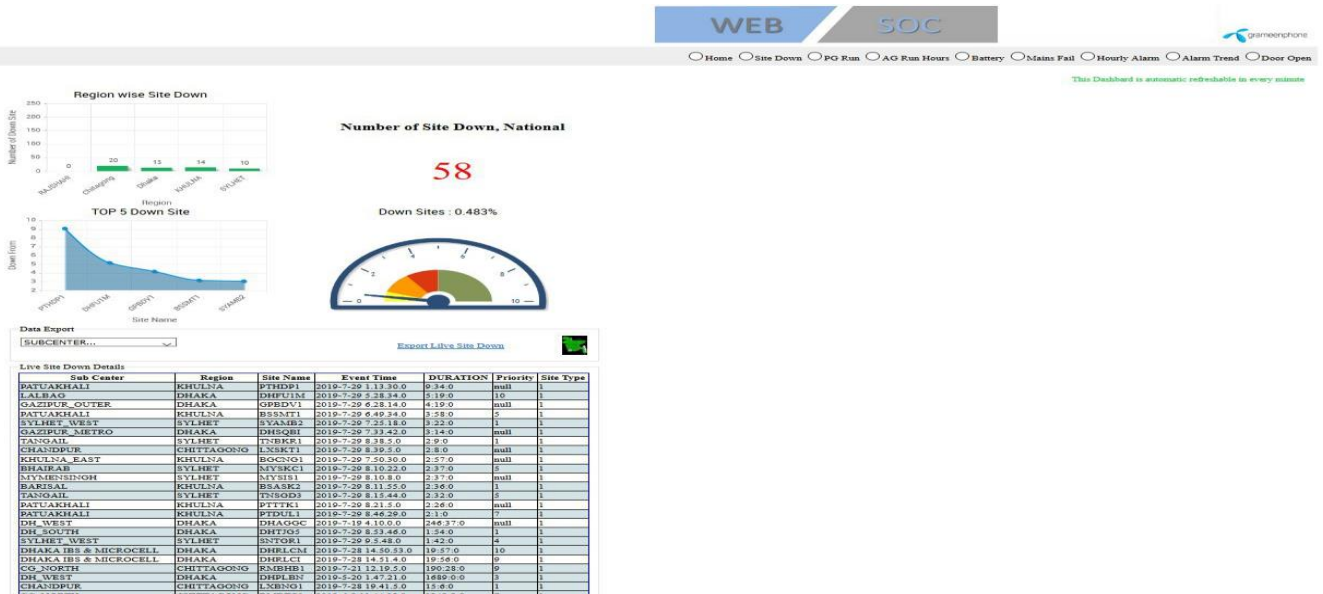


Fig. 3.11: Site down on GP SOC.

- Current Mains Fail update-

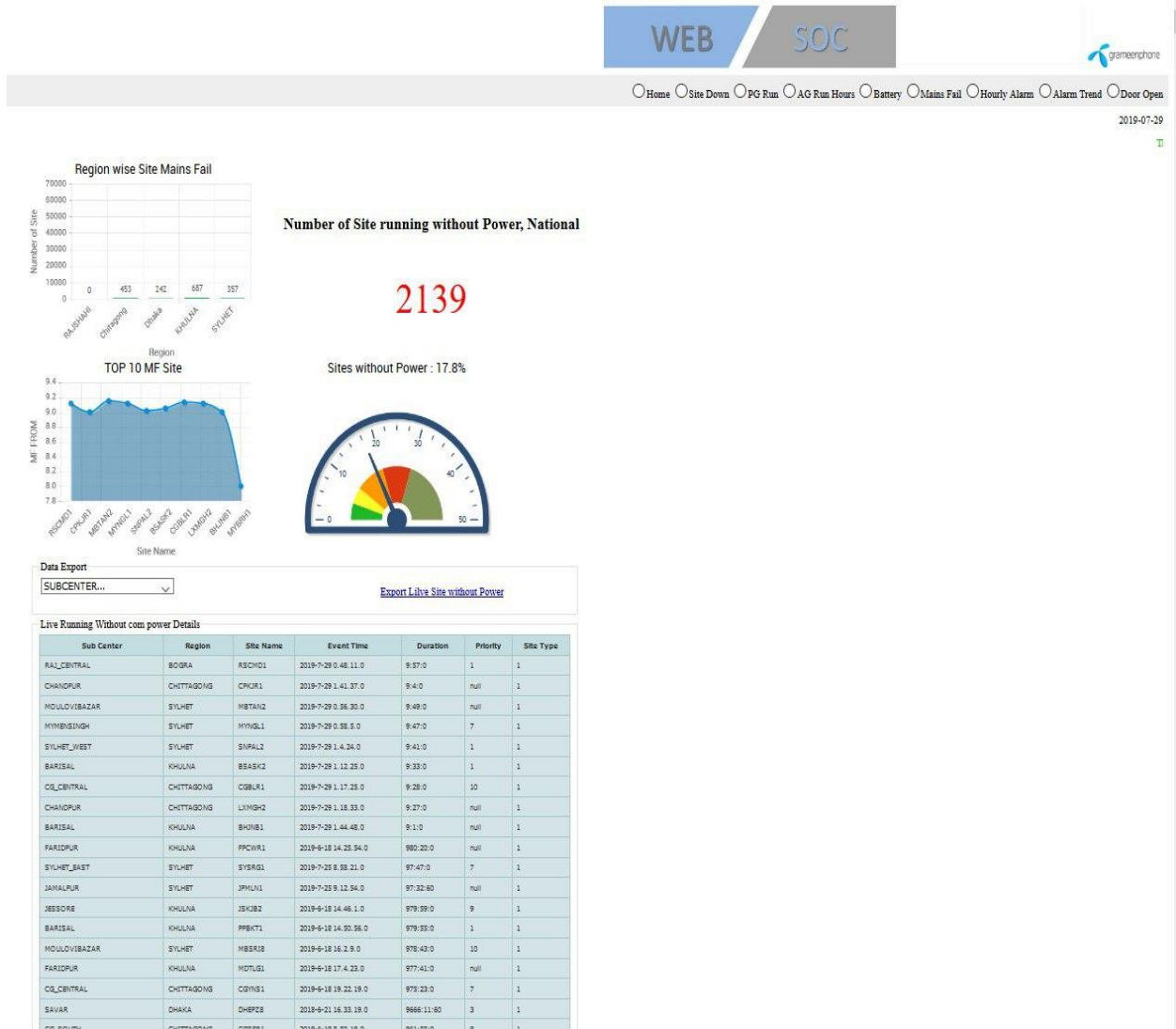


Fig 3.12: Mains fails Alarm.

- Battery alarm status-

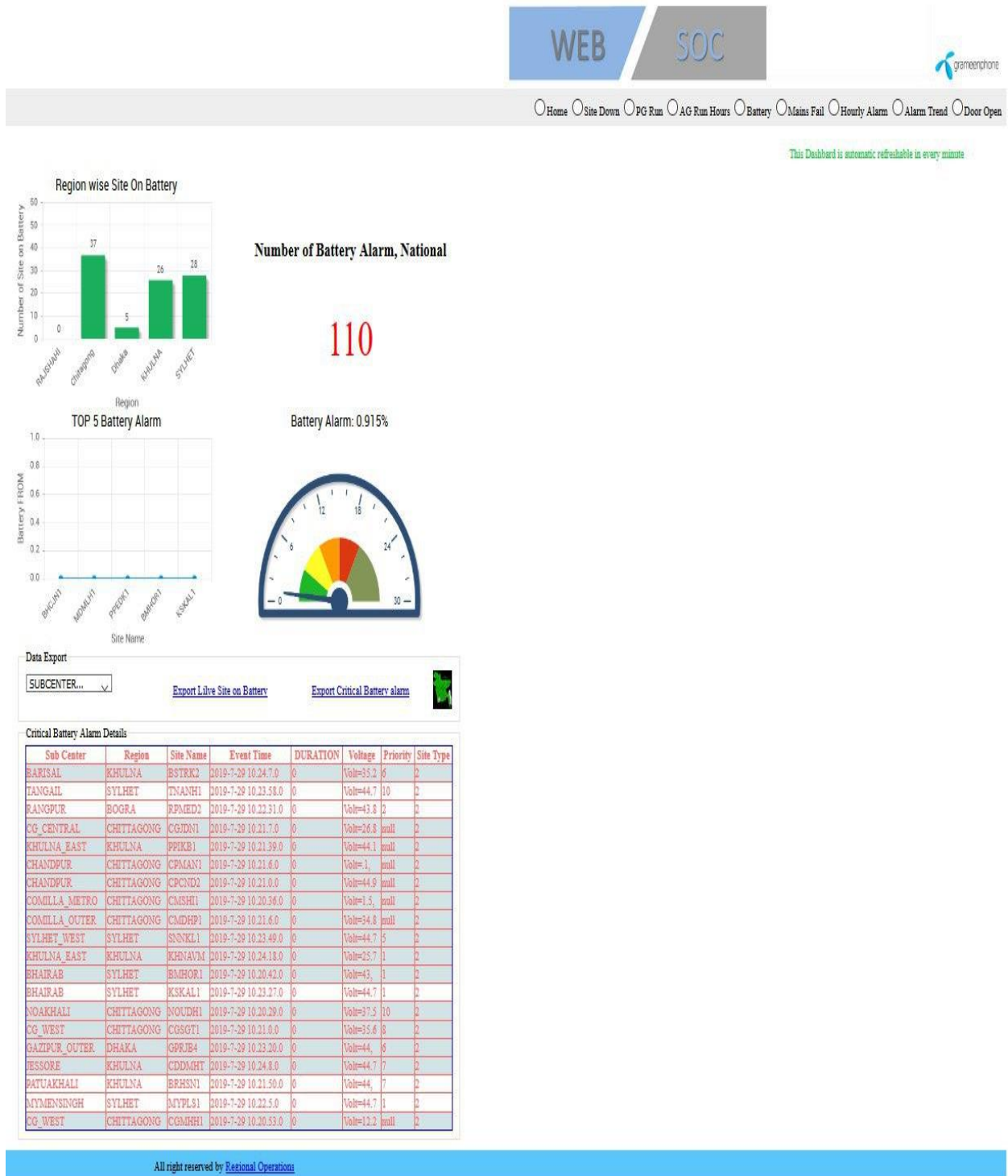


Fig. 3.13: Battery alarm.

- Alarm Trend status-

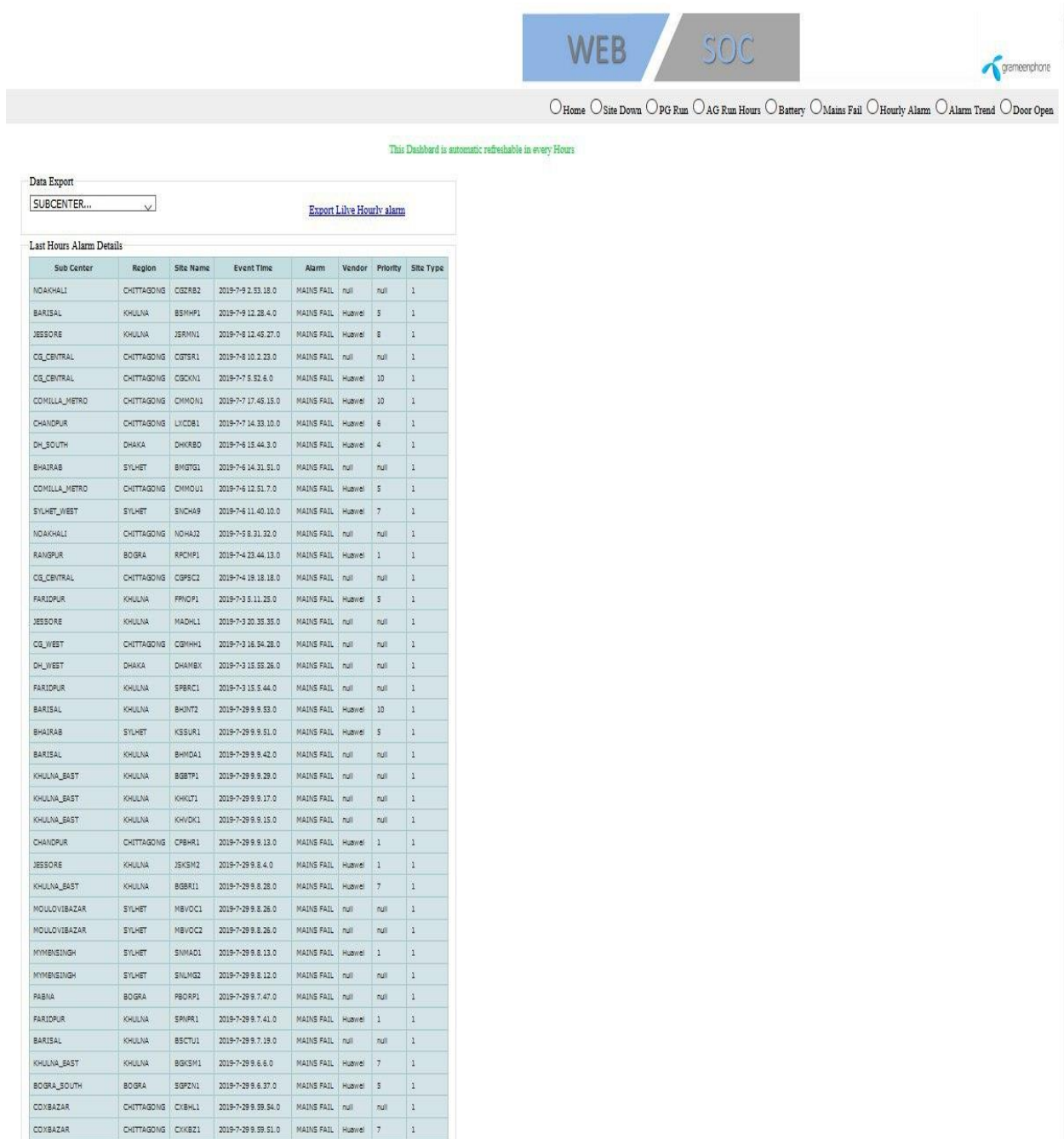


Fig 3.14: Alarm trends.

- Door Open status-

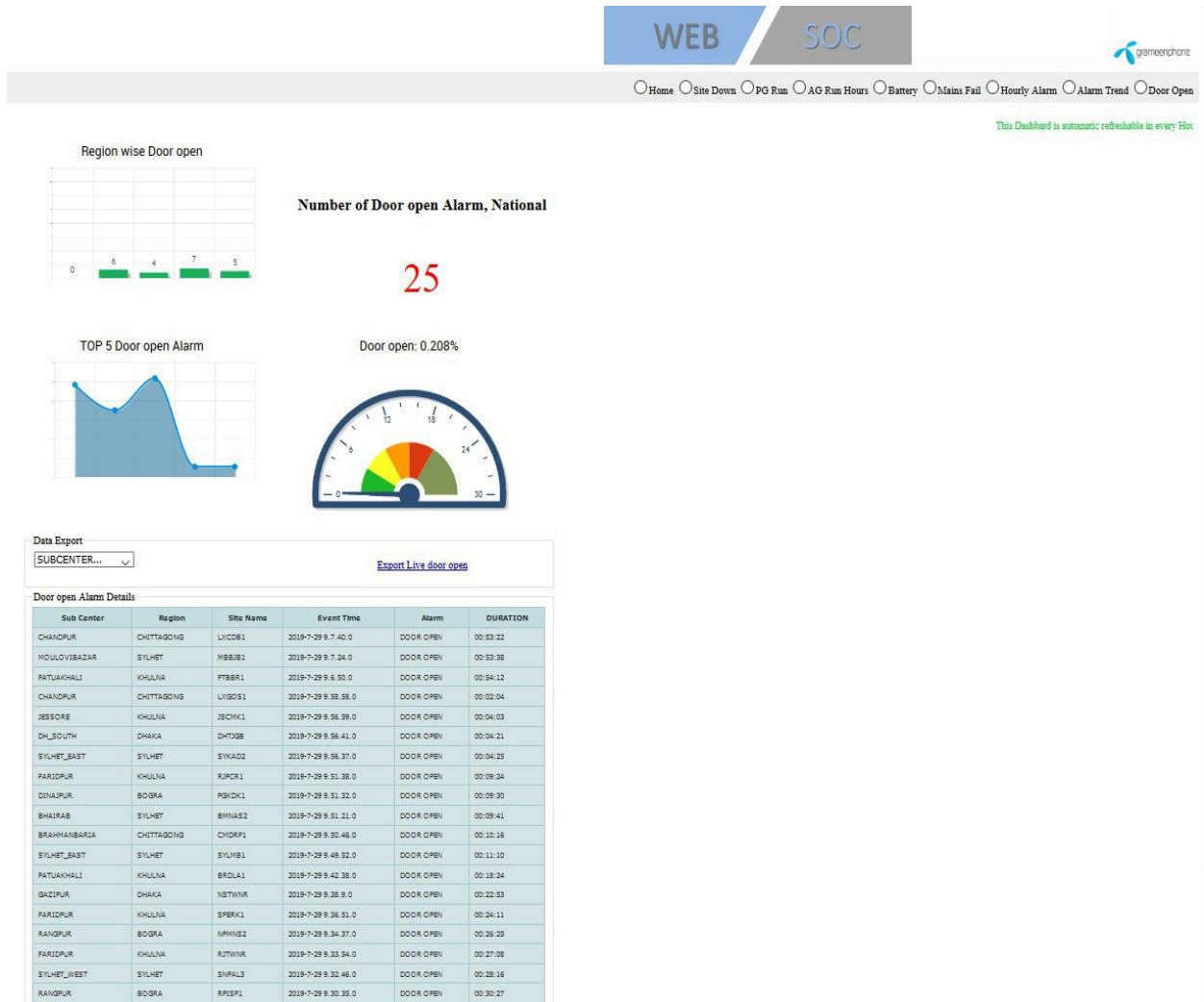


Fig 3.15: Door open Alarm.

- Digital key Access issue

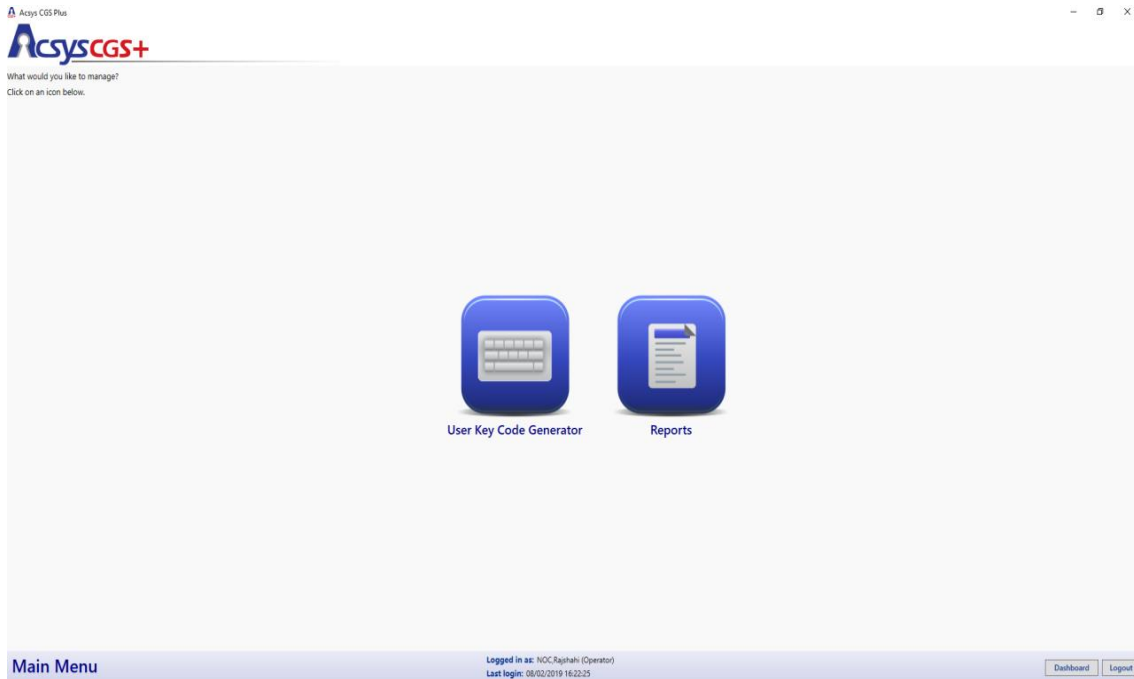


Fig. 3.16: Digital key

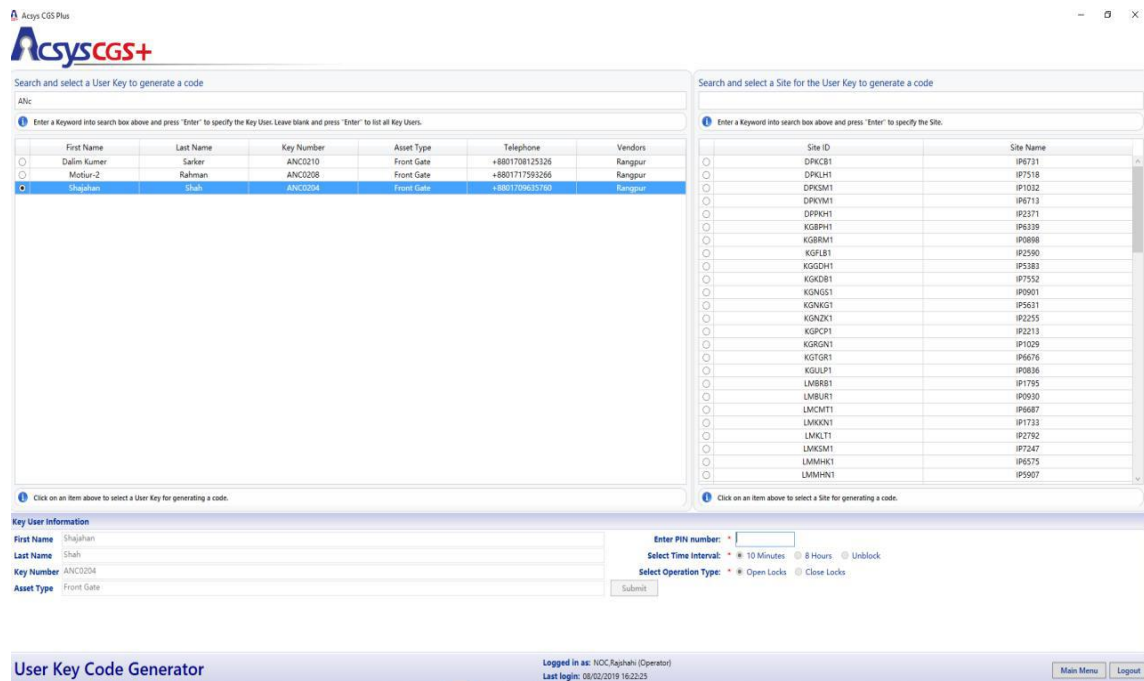


Fig. 3.17: Digital key site list

3.4 Challenges

New environment always difficult to adjust. This is my first experience started corporate life its always challenging. I feel nervous to adjust office environment. Must be well dressed and very formal, I am comfortable with casual dress. So, first office environment is difficult to adjust, after few days I am comfortable with my colleague and office environment.

CHAPTER 4

COMPETENCIES AND SMART PLAN

4.1 Competencies Earned

Teamwork

Teamwork is a part of parcel of careers, because teams that work well together more efficient. Even anyone work remotely, it is still important that he or she able to communicate ideas. In working place team work is necessary without it it's incomplete.

Responsibility

Responsibility is necessary for most jobs. It's a compulsory to take step what situation demand. Stay cool and take responsibility because company want to know how anyone can handled responsibilities in situation demand.

Commercial Awareness

In working place it's a necessary to forward carrier.

Decision Making

In networking sector Decision making is compulsory because here within a one second anything can happen, so take a step situation demand.

Communication

Communication skills are essential in job sector. I believe that my communication skills are developed and confident, professional and easy for others to understand.

Leadership

Leadership abilities are important if I am looking to progress into a management position. I think this skill are necessary to forward next step.

Problem Solving

Real time problem solving is a big issue I think I can handle any kind of pressure in my own experience. InshaAllah in any situation I can solve problem.

4.2 Smart Plan

Internship on Metal Plus NOC it's a huge advantage for me because in networking sector its really good company. I want to build my carrier networking sector so it's an opportunity to go next step.

4.3 Reflections

By doing Internship on Metal Plus we get the practical experience and knowledge in the field of Network Engineering. It helps me to get experience in engineering job. In my intern period, I learned telecom related Practical knowledge. telecom sector is a smart and dynamic profession at this time. This Internship will help me to be get a smart job. Internship gives advanced tricks and trips that skillful by the professional.

CHAPTER 5

CONCLUSION AND FUTURE CAREER

5.1 Discussion and Conclusion

As a Power Division Metal Plus Ltd. is completely committed to provide high quality Services to its customers. And they are also committed to contributing to the growth of GDP of our country. This company is creating opportunity for employment of the youth. So it is automatically raising the standard of living in Bangladesh. Metal Plus Ltd. is trying them Best to give their customers the most excellent service they can provide and customers are quite happy with their service. Metal has good reputation for their excellent services. Metal Plus Ltd should explore the new trends and strategies to compete with them Competitors. I have enjoyed a lot working for this Company and I hope to become a part of this community after I graduate. This has been a very fun and enjoyable four months for me at Metal Plus Ltd. The ability to make someone comfortable in a working environment by the employees of my office was the best part of this experience.

5.2 Scope for Further Career

It's always great pleasure working like Metal Plus Ltd. Because there are so many opportunities here, as a beginner lots of learning and implementation works place. Internship in metal plus Ltd. Its next step to build carrier in network sector.

References

[1] Metal Plus official Logo:

https://www.google.com/search?q=metal+plus+ltd&safe=active&source=lnms&tbm=isch&sa=X&ved=0ahUKEwjnm_nxkefjAhUOfX0KHYmECToQ_AUIESgB&biw=1536&bih=750#imgrc=XH4j7huE5PSB4M: (31-07-2017 08:06pm)

[2] Metal Plus website: <http://www.metalplusltdbd.com/> (8/2/2019 6:56)

[3] SWOT Image: <https://financenewmexico.org/wp-content/uploads/2017/03/SWOT-Analysis.jpg>
(8/2/2019 6:55)

APPENDICES

Appendix A: Internship Reflection

I am very thankful to finish my internship. At first, I want to give a boundless thanks to my supervisor, to AHMED AL MAROUF sir without whom it's impossible for us to complete it. He is always to prepare to answer all of my questions and clear my concept for allocated tasks. For this internship in a few months a lot of changed happened for me. This internship is open a great opportunity to enter a new era. Reflection on my intern I achieve numerous real-life connectivity and lots Experience.

Appendix B: Company Details



METAL PLUS LTD

PBL Tower (12th floor),
17 North C/A, Gulshan Circle-2,
Gulshan, Dhaka-1212.

Phone: +88 02 9884549

Email: info@metalplusltdbd.com

Internship Report

ORIGINALITY REPORT

| | | | |
|------------------|------------------|--------------|----------------|
| 19% | 12% | 0% | 14% |
| SIMILARITY INDEX | INTERNET SOURCES | PUBLICATIONS | STUDENT PAPERS |

PRIMARY SOURCES

| | | |
|----------|---|-----------|
| 1 | dspace.bracu.ac.bd:8080 Internet Source | 6% |
| 2 | Submitted to Daffodil International University Student Paper | 5% |
| 3 | www.monster.com Internet Source | 3% |
| 4 | Submitted to University of Wales Institute, Cardiff Student Paper | 1% |
| 5 | Submitted to University of Maryland, University College Student Paper | 1% |
| 6 | Submitted to Christ University Student Paper | 1% |
| 7 | bangladeshbusinessdir.com Internet Source | 1% |
| 8 | www.btcl.com.bd Internet Source | 1% |