

INVESTIGATION REPORT INTO CAUSE OF FIRE AT MAKERERE UNIVERSITY MAIN BUILDING



Prepared by:

Task Force on the Cause of Fire at
Makerere University Main Building


November 2020

AZ

Bm



nr

AG

Table of Contents

List of Tables	iv
List of Figures	v
List of Annexes	vii
List of Acronyms	viii
Executive Summary	ix
1.0 Introduction	1
1.1 Background	1
1.2 Investigation Team	1
1.3 Methodology	2
2.0 Investigation Findings and Analysis	3
2.1 Visual Site Inspection	3
2.2 Interviews	7
2.2.1 Interview with Deputy Director Fire and Rescue, Mr. Kihanda Hassan	8
2.2.2 Interview with Director Engineering, Makerere University, Eng. Christina Kakeeto	9
2.2.3 Interview with University Bursar, Makerere University, Mr. Everest Beinomugisha	10
2.2.4 Interview with PRO, Ms. Rita Namisango	11
2.2.5 Interview with Custodian Main Building, Mr. Ampeire Immy	12
2.2.6 Interview with Civil Engineer, Eng. Ezra Sekadde	13
2.2.7 Interview with Assistant Estates Manager, Mr. Darius Muwanguzi	14
2.2.8 Interview with Electrician, Mr. Paul Sebakakyi	14
2.2.9 Interview with Electrician, Mr. Kato Lazarus	16
2.2.10 Interview with Manager Performance & Appraisal, Mr. Julius Lebo	17
2.2.11 Interview with Labour Relations Officer, Ms. Janet Nabukera	17
2.2.12 Interview with Electrician, Mr. Babumba Joseph	18
2.2.13 Interview with Messenger, Ms. Nakimuli Miriam	19
2.2.14 Interview with Accountant, Office of University Bursar, Ms. Consolata Komugisha	19
2.2.15 Interview with Legal Officer, Ms. Naome Kiconco Ocen	20
2.2.16 Interview with Administrative Secretary, Ms. Naome Namuganga Namulasa	20
2.2.17 Interview with Principal Assistant Bursar, Salaries, Mr. Serunjonji Abdu Majid	21
2.2.18 Interview with Senior Administrative Assistant of the University Secretary, Ms. Nakayofu Annette	21
2.2.19 Interview with Administrative Assistant, Finance, Mr. Blaise Turyasingura	21
2.2.20 Interview with Sergeant No. 3656, Sergeant in Charge Duties, Enuke Justine	22
2.2.21 Interview with Police Constable Kisekya Allan Force No. 67425	22
2.2.22 Interview with Messenger University Secretary's Office, Ms. Angella Mabirizi	22
2.2.23 Interview with Chief Security Officer Makerere University, SSP Saiga	23
2.2.24 Interview with Accountant Salaries, Mr. Kato Godfrey	23
2.2.25 Interview with Personal Assistant to Vice Chancellor Makerere University, Mr. Gordon Murangira	24

AZ

ND

BM




INVESTIGATION REPORT INTO CAUSE OF FIRE AT MAKERERE UNIVERSITY MAIN BUILDING

2.2.26	Interview with Vice Chancellor Makerere University, Prof. Barnabas Nawangwe	24
2.2.27	Interview with Electricians, Mr. Kato Lazarus, Mr. Paul Sebakakyi and Mr. Babumba Joseph	25
2.3	Review of Drawings and Documents	26
2.3.1	Review of Drawings.....	26
2.3.2	Review of Documents from Estates and Works Department.....	26
2.4	Review of CCTV Footage	30
2.5	Analysis of Findings	30
2.5.1	Analysis of Burning Pattern and Determination of Origin of Fire	30
2.5.2	Forensics Analysis	33
2.5.3	Analysis Power Supply and Reticulation in Makerere University Main Building	33
2.5.4	Tests on Power Supply and Reticulation in Makerere University Main Building	38
3.0	Cause of Fire.....	40
3.1	Origin of the Fire	40
3.2	Cause of the Fire.....	40
3.2.1	Arson by Using Diesel, Petrol or Kerosene	40
3.2.2	Arson by Lighting Match in Room on First Floor of Main Building or Leaving Candle Burning	40
3.2.3	Fire Due to Electrical Problem in Main Building.....	41
3.3	Inadequacies in Operations in Main Building and Failures that Resulted in Fire	45
4.0	Conclusions and Recommendations	49
5.0	Endorsement by Investigation Team Members	52

AZ

MA

Bm



HL A-G

List of Tables

Table 1: Investigation Team..... 1

Table 2: List of People Interviewed in Investigation of Cause of Fire at Makerere University Main Building..... 7

Table 3: Drawings Reviewed by Investigation Team26

Table 4: Details of Bulk Meters for Power Supply to Makerere University 27

Table 5: Voltage on Makerere University 1 Bulk Supply Meter at Makerere University East Gate27

Table 6: Voltage on Makerere University 2 Bulk Supply Meter at Makerere University Education28

Table 7: Tests Requested for from UNBS 38

Table 8: Electrical Equipment in Offices in Northern Wing of First Floor of Main Building 42

Table 9: Inadequacies in Operations in Main Building and Failures that Resulted in Fire 45

Handwritten signature/initials

AZ

NZ

Bm

Handwritten mark

Handwritten initials and text: A.G.

List of Figures

Figure 1: Sketch of Makerere University Main Building Front View	1
Figure 2: Front of Northern Wing of Main Building Showing with Smoke on Windows	3
Figure 3: Main Entrance and Front of Southern Wing of Main Building	3
Figure 4: Back of Southern Wing of Main Building with Burnt Windows on Second Floor and No Roof	4
Figure 5: Debris Behind Southern Wing of Main Building.....	4
Figure 6: Smoke Coming Out of Tower of Main Building.....	4
Figure 7: Hot Water from Fire Truck in Corridor of Southern Wing of Main Building.....	4
Figure 8: Burnt Furniture and Equipment on Ground Floor Office, Southern Wing of Main Building	5
Figure 9: Smoke in Northern Wing of Main Building	5
Figure 10: Smoke Going through Open Roof of Northern Wing of Main Building	6
Figure 11: Burnt Out First Floor, Southern Wing of Main Building with Hanging Bookshelf.....	6
Figure 12: Hanging Metal Conduit, Burnt Trunking and Steel Beams in Southern Wing of Main Building	6
Figure 13: Burnt Out Ground and First Floor of Southern Wing of Main Building	6
Figure 14: Voltage Fluctuation of Power Supply through Makerere University 1 Bulk Supply Meter at East Gate	28
Figure 15: Voltage Fluctuation of Power Supply through Makerere University 1 Bulk Supply Meter at East Gate	29
Figure 16: Soot Deposition Pattern in Windows on First Floor of Northern Wing of Main Building	31
Figure 17: Burnt Staircase of First Floor, Northern Main Building	31
Figure 18: Illustration of Propagation Pattern of Fire at Makerere University Main Building	32
Figure 19: Exposed Wires from Burnt PVC Trunking in Corridor of First Floor of Main Building	32
Figure 20: Fuse Cut Outs at Main Incomer of Main Building	34
Figure 21: Busbar in Power Room of Main Building	34
Figure 22: Isolators for Power Supply to Consumer's Units in Basements and Floors of Main Building	34
Figure 23: MDB Supplying Power to Consumer's Units on Ground Floor of Main Building	34
Figure 24: Consumer's Unit in Duct Supplying Power to Section of Ground Floor of Northern Wing of Main Building.....	35
Figure 25: Position of Burnt Consumer's Unit in Finance Office in Northern Wing of Main Building.....	35
Figure 26: Burnt Consumer's Units of Ground Floor of Northern Wing of Main Building	36
Figure 27: Position of Second Burnt Consumer's Units on Ground Floor of Northern Wing of Main Building.....	36
Figure 28: Consumer's Unit in Common Room on Ground Floor, Southern Wing of Main Building	36
Figure 29: Consumer's Unit for Lights on First Floor of Main Building	37
Figure 30: Consumer's Unit for Sockets on First Floor of Main Building	37
Figure 31: Position of Burnt Consumer's Units for Lights and Sockets on Second Floor of Main Building	37
Figure 32: Consumer's Unit 1 in Ceiling of Stage of Main Hall.....	38

AZ

NR

Bm

⓪

v

AC

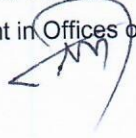
JK

Figure 33: Consumer's Unit 2 in Ceiling of Stage of Main Hall 38



List of Annexes

Annex 1: Minutes and Attendance Lists of Task Force on Cause of Fire at Makerere University Main Building.....	53
Annex 2: Interviews.....	54
Annex 3: Sketch of Power Supply Schematic of Makerere University Main Building.....	82
Annex 4: Response from UNBS on Tests Requested for.....	83
Annex 5: Sketch of Electrical Equipment in Offices on First Floor of Main Building.....	84



AZ

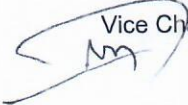
NR

Bom

A-C
TK

List of Acronyms

ACCA	Association of Chartered Certified Accountants
CAPEX	Capital Expenditure
CCTV	Closed Circuit Television
CID	Criminal Investigations Department
CoCS	College of Computer Science
CPS	Central Police Station
DICTS	Directorate of ICT Support
DVC	Deputy Vice Chancellor
ERA	Electricity Regulatory Authority
GAL	Government Analytical Laboratory
GI	Galvanised Iron
ICT	Information and Communications Technology
IGG	Inspector General of Government
KCCA	Kampala Capital City Authority
LAN	Local Area Network
MDB	Main Distribution Board
MUASA	Makerere University Academic Staff Association
NBRB	National Building Review Board
NITA	National Information Technology Authority
OC	Officer in Charge
OSH	Occupational, Safety and Safety
PA	Personal Assistant
PRO	Public Relations Officer
SSP	Senior Superintendent of Police
TV	Television
UIPE	Uganda Institution of Professional Engineers
UNBS	Uganda National Bureau of Standards
UPS	Uninterrupted Power Supply
VC	Vice Chancellor



AZ

NRK

Bm



A.C

Executive Summary

A fire broke out at Makerere University Main Building on 19th September 2020. A task force comprising of the National Building Review Board (NBRB), Criminal Investigations Department (CID), Directorate of Forensic Services, Directorate of Government Analytical Laboratory (GAL) and the Occupational Safety and Health (OSH) Department of the Ministry of Gender, Labour and Social Development (MoGLSD), was constituted to investigate the cause of the fire. This is a report on the investigations carried out and findings of the task force.

Makerere University Main Building was a three storied building with two wings, a basement, a tower and a main hall. There was printery in the basement of the building. The northern and southern wing of the building were separated by the tower. The first floor of the northern wing of the building had a mezzanine level with a concrete floor. The other floors of the northern and southern wing of the building were wooden, except for the corridors that had concrete floors.

A visual inspection was undertaken on 20th September 2020 at 9:00 a.m. It was observed that the northern wing of the building was burnt out. The ground floor and first floor of the southern wing of the building were not burned. There was smoke coming out of the tower of the building. There was a lot of heat in the northern wing of the building and the water poured into the building by the fire brigade was steaming. The ground floor of the northern wing of the building had burnt furniture and equipment. There was smoke in the northern wing of the building. The building had metal conduit and steel beams. The first floor had two levels whose floors collapsed.

Interviews were held with witnesses of the fire and occupants of the northern wing of the building. The interviews informed the analysis and deliberations of the investigation team.

Architectural drawings of the Main Building were provided to the investigations team by the Estates and Works Department. The drawings were not adequate as the cross-sections were not provided, showing construction materials. As-built drawings were not provided. The drawings provided were dated 1972, and were not the first drawings of the Main Building.

The Estates and Works Department of Makerere University also provided documents to the investigations team on the status of the Main Building and requests for repairs to the Main Building.

Data from the Umeme Ltd. bulk supply meters of Makerere University was obtained to check that the fire was not caused by over voltage from the mains power supply. There are two bulk supply meters at Makerere University, one at Makerere University East Gate and another at Makerere University School of Education. Voltage fluctuation on both meters was checked from the data. The data showed that the nominal voltage at the secondary of the transformer was maintained within $\pm 10\%$ from 5:00 p.m. on Saturday 19th September 2020 to 12:45 a.m. on Sunday 20th September 2020, at both meters, as per Section 8.3.1 of the Electricity (Primary Grid Code) Regulations, 2003. The fire was therefore was not caused by a voltage fluctuation from the mains power supply.

The CCTV camera at the printery showed that fire started at 2330 hours on Saturday 19th September 2020. The CCTV camera at St. Francis Chapel showed smoke coming out of the Main Building at 00.41 hours on Sunday 20th September 2020. CCTV footage showed that the last person to enter the Main Building on Saturday 19th September 2020 was the University security guard. He entered the Main Building at 7:00 p.m. He did not leave the Main Building until the Chief Security Officer knocked on the building to wake him up. At that time the Main Building was burning. This was at 12:48 a.m. on Sunday 20th September 2020.

The origin of the fire is confirmed as an area within the northern wing of the Main Building, i.e. the University Bursar's office or Room 315, where his secretaries sit. The fire spread to adjacent offices upwards in a V shape and southwards following ambient wind direction (southwards). The fire moved along the wooden staircase to the second floor of the building. The roof dropped burning debris which introduced fires in the other offices of the second floor away from the northern wing of the building. Heat was radiated by wind through the corridor and trunking on the first floor, to the Council Room. Fire spread from the northern wing of the building to the Central Registry, destroying most of the property there.

INVESTIGATION REPORT INTO CAUSE OF FIRE AT MAKERERE UNIVERSITY MAIN BUILDING

The second fire that occurred on Sunday 20th September 2020 was caused by heated trunking. Heat was radiated by wind through the corridor and trunking on the first floor, to the Council Room. Trunking was run from the northern wing to the southern wing on the first floor, at ceiling level. The trunking was heat conducting. The trunking reached a very high temperature resulting in ignition and burning of the Council Room on the first floor of the building.

The investigation team picked samples of ash randomly from the ground floor in the area beneath the suspected seat of the fire, the University Bursar's office and Room 315 on the first floor. Tests were carried out in the laboratory for determination of presence of fossil fuel based accelerants. The samples tested negative for fossil fuel markers.

The results of analysis of samples picked from the scene and burning pattern analysis suggest no ignitable liquid or explosive material was used to intentionally start the fire. Arson by ignitable liquid or explosive material was not the cause of the fire.

Absence of traces of ignitable liquids or explosive materials (Foreign Fire Accelerants) does not in itself exclude a possibility of arson. Arson using a matchbox or cigarette lighter or a smouldering item cannot be ruled out as the cause of the fire. CCTV footage revealed that the last person to enter the Main Building on Saturday 19th September 2020, was the University security guard. He normally locks himself in the building at night. He entered the building at 7:00 p.m. He was woken up by the Chief Security Officer at 12:48 a.m. when the building was on fire. The possibility of the fire being started by someone in the building who found an alternative exit from the building cannot be entirely ruled out, since the CCTV cameras in the Main Building were non-functional.

Sparks can be caused by short circuits in exposed live wires which have been eaten by rats, bats or lizards. There were instances of rats in the Main Building as picked up from the interviews held. Furnigation was done and there are records from the Estates and Works Department showing that fumigation was done. There were however lizards in the Main Building which can eat wires and cause a short circuit. On a scale of 1 to 10, the likelihood of sparks from short circuits in exposed wiring causing the fire is 2.

The continuous haphazard modification of electrical installations, as was the case in the Main Building, without due attention to the original design, contributes to an overload in the wires. Wires can overheat because they are overloaded. The wire will heat up to a point where it will burn. This will burn combustible material next to the burning wire. In particular, Room 315, one of the offices where the fire could have originated, had four extension cables. The refrigerator, kettle, computers and water dispenser were powered through extension cables. Powering kettles and refrigerators from extension cables can cause overloading of the extension cables and eventually burning of the extension cable. This does not happen instantly, but over time. The kettle powered from the extension could have over time heated the cable of a lower current rating than what is required to power a kettle. On a scale of 1 to 10, the likelihood of overheating of wires in extension cables due to overloading, and causing a fire is 5.

The University Bursar's office and Room 315 had UPSs, computers and printers. These devices have internal power supplies which can fail and burst. The devices most likely to burst from a failure of the internal power supply are laptops. There were however no laptops in the University Bursar's office or in Room 315. On a scale of 1 to 10, the likelihood of the fire being caused by the internal power supply of a computer, UPS or printer in the University Bursar's office or Room 315 bursting, is 2.

Insulation of old wires degenerates and becomes brittle. The live and neutral of the wires can then touch, cause a spark that will ignite a fire if there is combustible material nearby. The wiring in the Main Building was more than 30 years old and would ordinary be due for replacement. There were no records to show that wiring on the first floor in the University Bursar's office and Room 315 had been replaced. Trunking had been installed in the offices and cables were run from the existing sockets through the trunking. On a scale of 1 to 10, the likelihood that the fire was caused by old wiring in the University Bursar's office or Room 315 is 6.

The fluorescent lights in the University Bursar's office and those in Room 315 were suspended from the ceiling. Overheating of a ballast, and melting of the liquid in the ballast onto combustible material was likely in these two offices. There were instances of lights flickering in the building which is a sign of a

INVESTIGATION REPORT INTO CAUSE OF FIRE AT MAKERERE UNIVERSITY MAIN BUILDING

faulty ballast. On a scale of 1 to 10, the likelihood that the fire was caused by a fluorescent lamp in the University Bursar's office or Room 315 is 5.

The conclusions below were arrived at by the investigations team.

- 1) The investigation team established that the fire started at around 11:30 p.m. on Saturday 19th September 2020 in the University Bursar's office or Room 315 on the first floor of the Main Building.
- 2) Arson by conventional fuel accelerants, i.e. diesel, petrol or kerosene was ruled out.
- 3) Arson by lighting a match or leaving a smouldering item burning, could not be established or ruled out, because there were no CCTV cameras in the building and the guard was sleeping in the locked building. In addition, there were ongoing labour disputes in the University.
- 4) It is the investigation team's professional opinion that it was an electrical fire. This is because of the inference below.
 - i) The electrical wiring was more than 30 years old and would ordinarily be due for replacement. Reports from the Estates and Works Department recommended overhauling of electrical installations in the Main Building.
 - ii) There was no proper maintenance of the electrical installations in the Main Building, with no preventive maintenance plan.
 - iii) There was continuous haphazard modification of electrical installations in the Main Building without due attention to the original design and the increasing load.
- 5) The fire was visually detected by a police officer. Systems should have been in place to detect and send an alarm to notify people about the fire, as required under Section 60 of the Occupational Health and Safety Act. Safety systems were lacking in the Main Building, which could have prevented spread of the fire.
- 6) The electricians of the Estates and Works Department are not qualified enough to adequately handle repairs and maintenance of electrical installations in the University. In addition, they were unprofessional in handling repairs and maintenance of electrical installations in the Main Building. This was compounded by lack of tools to carry out their work. The electricians were not forthright in their interviews with the investigation team. The information they gave in the interviews could not be corroborated by occupants of the building or the custodian of the Main Building. Neither could the information be corroborated in the documents submitted to the investigation team, by the Estates and Works Department. They did not have a qualified supervisor or manager to oversee electrical installations carried out, and monitor preventive maintenance on electrical installations in the building.
- 7) Power supply and reticulation in the Main Building was not properly documented according to practices and regulations, which made the electricians work difficult. Lack of this documentation also made the investigation of the cause of the fire difficult. There was negligence in documentation of power supply and reticulation in the Main Building, even when modifications were made.
- 8) The Main Building lacked a functional CCTV system which could have aided in detection of the fire sooner, if it was connected to a manned control centre.
- 9) The fire could have been contained by the fire brigade had they come better prepared to fight the fire.
- 10) The fire could also have been contained if the Main Building had fire fighting systems in place. Makerere University Main Building lacked the physical infrastructure, training and preparedness to detect, communicate and fight a fire of any magnitude however small it would have been. There was no operational fire hydrant in the vicinity of the Main Building.

- 11) The University does not have an Occupational Safety and Health (OSH) policy contrary to Section 14 (1) (a), (b) and (c) of the Occupational Safety and Health Act, 2006, herein after referred to as the Act.
- i) The University lacks a designated person in charge of health and safety at the campus, contrary to Section 16 (1) of the Act.
 - ii) The University did not have any known or documented emergency preparedness plan and the Main Building equally lacked an evacuation plan, contrary to Section 15 of the Act.
 - iii) There is one fire hydrant in the University, however it was covered up and known to one individual only. There was no fire alarm or smoke detection system in the Main Building, contrary to Section 58 Of the Act.
 - iv) One fire extinguisher was found at the ground floor inside the enquiries office of the Main Building. This fire extinguisher had expired on 15th September 2020. However there were fire extinguishers in other areas of the Main Building that had been serviced.
 - v) No fire drill had been conducted at the Main Building in the last 10 years according the Vice Chancellor.
 - vi) Offices were accessible at any time of the day to whoever has keys to their office. Details on record keeping of persons entering or leaving the building could not be found.
 - vii) There is no functional Emergency Exit, as the main entrance also doubles as the exit. The entrances/exits within the main hall are only accessible when the main hall is in operation, however, when not in operation, the main hall is locked and hence cannot be considered for emergency evacuation of the building. This is contrary to Section 26 (1) and 57 (1)-(7) of the Act.
 - viii) The Main Building did not have trained first aiders, contrary to Section 55 (1), (2), (3), (5), (6), (7) and (8) of the Act.
 - ix) There was no accident/incident registry for the Main Building, contrary to Section 112, 113 and 114 of the Act.
 - x) In the interviews held by the investigation team, it was noted that there was very poor communication and information sharing. Some staff members had access to public information which other staff members had no idea about, for example, the presence of fire extinguishers, contrary to Section 25 (a), (b), of the Act.
 - xi) The Main Building lacked a designated meal area. Staff members usually prepare their own tea in their offices, contrary to Section 54 (1) and (2) of the Act.
 - xii) There were no known scheduled preventive maintenance programmes within the building. The earthing was never checked and electrical installations were questionable, for example, use of wires as fuses. This is contrary to Section 13 (2) (a) of the Act.

The recommendations below are made to prevent re-occurrence of a fire in other buildings in Makerere University, and to ensure timely fire detection and management in the event that a fire occurs.

- 1) Electrical installations in old buildings of Makerere University should be revamped. The Government of Uganda should provide funds for this or obtain credit to do this. These funds should be separate from the annual maintenance budget of the Estates and Works Department.
- 2) The annual maintenance budget of the Estates and Works Department should be increased to enable the department to carry out preventive maintenance on buildings in the University. Recommendations on source of funding for maintenance, presented by the Estates and Works Department, in the report on Makerere University Main Campus Facilities Capital and Maintenance Needs, submitted in November 2019, should be taken into consideration. With these funds, the Estates and Works Department should prepare and institute a preventive maintenance plan for all buildings in the University.

- 3) Two electricians with installations permits should be recruited for the Estates and Works Department. These should be holders of an Ordinary Diploma in Electrical Engineering, as a minimum.
- 4) A registered Electrical Engineer should be recruited for the Estates and Works Department, at management level.
- 5) The University should ensure that all CCTV cameras in the buildings are functional. Constant monitoring of the cameras should be done in a central surveillance room. All cameras that break down should be repaired immediately.
- 6) The fire brigade should beef up its capacity to respond to fires, which should include beefing up the fire trucks and personnel, and carrying out training and refresher courses for personnel. The fire brigade should carry out routine inspection and maintenance of the fire trucks.
- 7) A fire fighting truck should be permanently stationed at Makerere University.
- 8) Makerere University and other Government institutions should work with National Water and Sewerage Corporation to open up fire hydrant points for use by the fire brigade.
- 9) It is highly likely that without proper health and safety interventions at the University, another fire can easily break out or be started. It is recommended that the University put in place a proper health and safety system as per the OSH Act.

[Handwritten signature]

[Handwritten signature]

AZ

NR

MB

A.G

1.0 Introduction

A fire broke out at Makerere University Main Building on 19th September 2020. A task force comprising of the National Building Review Board (NBRB), Criminal Investigations Department (CID), Directorate of Forensic Services, Directorate of Government Analytical Laboratory (GAL) and the Occupational Safety and Health (OSH) Department of the Ministry of Gender, Labour and Social Development (MoGLSD), was constituted to investigate the cause of the fire. This is a report on the investigations carried out and findings of the task force.

1.1 Background

Makerere University Main Building was a three storied building with two wings, a basement, a tower and a main hall. There was printery in the basement of the building. The northern and southern wing of the building were separated by the tower. The first floor of the northern wing of the building had a mezzanine level with a concrete floor. The other floors of the northern and southern wing of the building were wooden, except for the corridors that had concrete floors. Figure 1 is a sketch of the Main Building's front view.

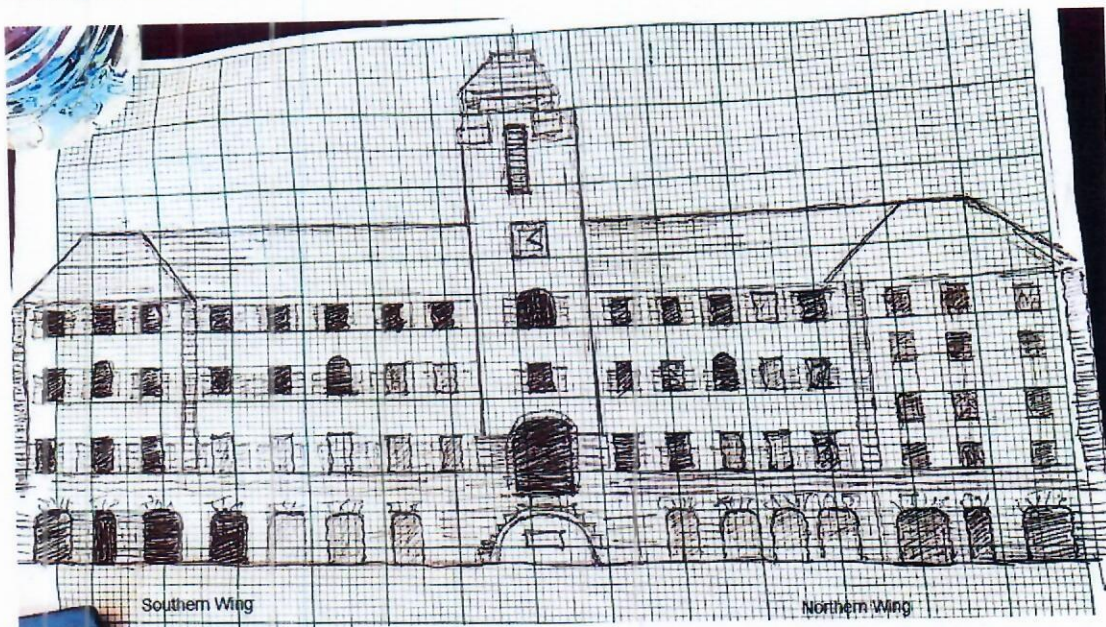


Figure 1: Sketch of Makerere University Main Building Front View

1.2 Investigation Team

The investigation team constituted is shown in Table 1.

Table 1: Investigation Team

	Name	Designation	Organisation
1	Eng. Dr. Rachel Namuli	Lead Investigator and Electrical Engineer	NBRB/UIPE
2	Eng. Hans J. W. B. Mwesigwa	Civil/Structural Engineer	NBRB/UIPE
3	Eng. Edward Kasule Musisi	Electrical Engineer	NBRB/UIPE
4	Arch. Jerome Olowo S.	Architect	NBRB
5	Eng. Eva Katusabe	Principal Specialised Safety Inspector (Civil Engineer)	Ministry of Gender, Labour and Social Development, OSH Department
6	D/SP Muhumuza Bernard	CID Commander KMP	Directorate of Criminal Investigations

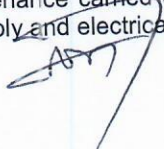
INVESTIGATION REPORT INTO CAUSE OF FIRE AT MAKERERE UNIVERSITY MAIN BUILDING

	Name	Designation	Organisation
7	D/IP Mbabazi Mary	Head of Forensics KMP/SOCO	Directorate of Forensic Services, Uganda Police Force
8	IP Nyanzi Rashid	Head of Forensics KMP North/SOCO	Directorate of Forensic Services, Uganda Police Force
9	D/CPL Achola Zerida	CID Investigating Officer	Directorate of Criminal Investigations
10	Lt. David Bakayoreka	Lieutenant	ISO
11	Stephen S. Kibuuka	Senior Government Analyst, Ballistics	Directorate of Government Analytical Laboratory
12	D/ASP Among Gloria	Divisional CID Officer, Wandegaya	Directorate of Criminal Investigations

1.3 Methodology

The task force carried out the investigation in stages described below, aimed at collecting information on occupancy and , activities in the building on the day before the fire and the status of power supply and electrical installations in the building.

- i) An initial site visit to assess the situation and interaction with witnesses present when the fire brigade was fighting the fire.
- ii) Terms of Reference of the investigation of the fire were issued to the investigation team.
- iii) Interviews with occupants of the building to determine the equipment and materials in the building, status of electrical installations and power problems in the building.
- iv) Interviews with the Estates and Works Department to determine the status of electrical installations and power supply to the building.
- v) Collection of ash and testing it to determine the presence of fuel accelerants.
- vi) Analysis of materials in the building, remnants of the building and smoke pattern to determine the origin and movement of the fire.
- vii) Analysis and testing of remnants of lamps, circuit breakers, fuses and wires in the building to determine whether the lamps could have caused the fire and whether the circuit breakers, fuses and wires were properly sized to protect equipment from short circuits.
- viii) Review of the drawings of the Main Building to understand the layout of the floors of the Main Buildings and determine the occupants of the floor where the fire originated.
- ix) Review of reports and documents from the Estates and Works Department to determine repairs and maintenance carried out in the Main Building to inform the investigation of the state of power supply and electrical installations in the Main Building.



AZ

NR

MB



A-G

2.0 Investigation Findings and Analysis

This section of the report presents findings of the investigation and subsequent analysis.

2.1 Visual Site Inspection

A visual inspection was undertaken on 20th September 2020 at 9:00 a.m. It was observed that the northern wing of the building was burnt out. Figure 2 shows the front of the northern wing of the Main Building with smoke on the windows. The ground floor and first floor of the southern wing of the building were not burned as shown in Figure 3.



Figure 2: Front of Northern Wing of Main Building Showing with Smoke on Windows



Figure 3: Main Entrance and Front of Southern Wing of Main Building

Figure 4 shows the back of the southern wing of the Main Building with burnt windows on the second floor and no roof. Figure 5 shows debris behind the southern wing of the building.

AM

AZ

NR

MB

[Signature]

A-G

INVESTIGATION REPORT INTO CAUSE OF FIRE AT MAKERERE UNIVERSITY MAIN BUILDING



Figure 4: Back of Southern Wing of Main Building with Burnt Windows on Second Floor and No Roof



Figure 5: Debris Behind Southern Wing of Main Building

There was smoke coming out of the tower of the building (Figure 6). There was a lot of heat in the northern wing of the building and the water poured into the building by the fire brigade was steaming (see Figure 7).



Figure 6: Smoke Coming Out of Tower of Main Building



Figure 7: Hot Water from Fire Truck in Corridor of Southern Wing of Main Building

AZ

NR

MB

[Handwritten signature]

A-G

[Handwritten mark]

11

The ground floor of the northern wing of the building had burnt furniture and equipment as shown in Figure 8. There was smoke in the northern wing of the building (Figure 9).



Figure 8: Burnt Furniture and Equipment on Ground Floor Office, Southern Wing of Main Building



Figure 9: Smoke in Northern Wing of Main Building

Figure 10 shows smoke going through the roof of the northern wing of the building. Figure 11 shows a bookshelf on a steel beam on the burnt out first floor.

NR



Figure 10: Smoke Going through Open Roof of Northern Wing of Main Building



Figure 11: Burnt Out First Floor, Southern Wing of Main Building with Hanging Bookshelf

The building had metal conduit and steel beams shown in Figure 12 and Figure 13. The first floor had two levels whose floors collapsed as shown in Figure 13.

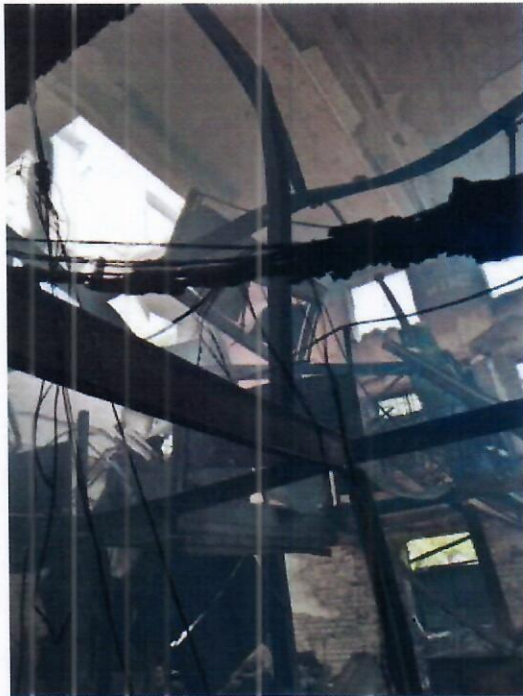


Figure 12: Hanging Metal Conduit, Burnt Trunking and Steel Beams in Southern Wing of Main Building

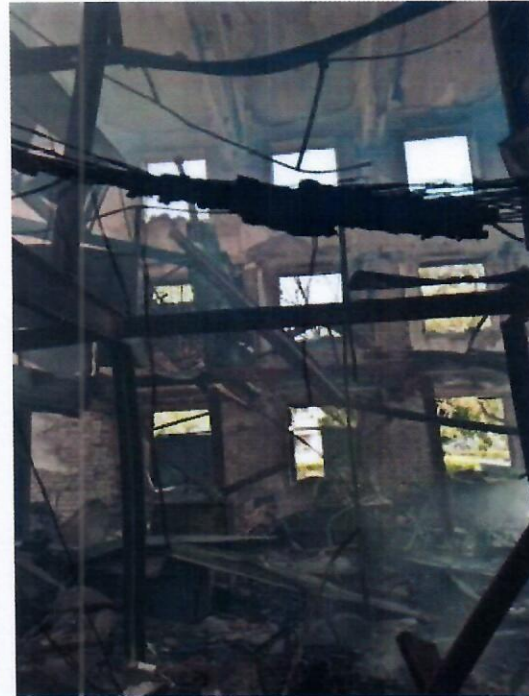


Figure 13: Burnt Out Ground and First Floor of Southern Wing of Main Building

A2

NR BMB

★

A-G

2.2 Interviews

Interviews were held with witnesses of the fire and occupants of the northern wing of the building. The task force also spoke to the Vice Chancellor. Table 2 shows the list of people interviewed during the investigation.

Table 2: List of People Interviewed in Investigation of Cause of Fire at Makerere University Main Building

	Name of Person Interviewed	Designation	Organisation	Telephone No.	Date of Interview	Venue of Interview
1	Mr. Kihanda Hassan	Deputy Director Police Fire Prevention and Rescue	Uganda Police Force (UPF)	-	20 th Sep 2020	Makerere University Main Building
2	Eng. Christina Kakeeto	Director Engineering	Makerere University	0755574523	21 st Sep 2020 24 th Sep 2020	Makerere University Freedom Square
3	Mr. Everest Beinomugisha	University Bursar	Makerere University	-	22 nd Sep 2020	Makerere University Freedom Square
4	Ms. Rita Namisango	Public Relations Officer (PRO)	Makerere University	0702944244	22 nd Sep 2020	Makerere University Freedom Square
5	Mr. Ampeire Immy	Custodian Main Building	Makerere University	0703197864 0712725465	22 nd Sep 2020	Makerere University Freedom Square
6	Eng. Ezra Sekadde	Civil Engineer, Estates and Works Department	Makerere University	0751449401	23 rd Sep 2020	Makerere University Freedom Square
7	Mr. Darius Mwanguzi	Ass. Estates Manager	Makerere University	-	23 rd Sep 2020	Makerere University Freedom Square
8	Mr. Paul Sebakakyi	Electrician	Makerere University	0772638018	23 rd Sep 2020	Makerere University Freedom Square
9	Mr. Kato Lazarus	Electrician	Makerere University	-	28 th Sep 2020 23 rd Sep 2020	NBRB Office Makerere University Freedom Square
10	Mr. Julius Lebo	Manager Performance and Appraisal	Makerere University	-	23 rd Sep 2020	Makerere University Freedom Square
11	Ms. Janet Nabukera	Labour Relations Officer	Makerere University	-	24 th Sep 2020	Makerere University Freedom Square
12	Mr. Babumba Joseph	Electrician	Makerere University	0772618588 0753618588	24 th Sep 2020 25 th Sep 2020	Makerere University Freedom Square
13	Ms. Nakimui Miriam	Messenger	Makerere University	0753176995	24 th Sep 2020	Makerere University Freedom Square
14	Ms. Consolata Komugisha, Accountant, Office of University Bursar	Accountant	Makerere University	0782379554	1 st Oct 2020	Makerere University Freedom Square
15	Ms. Naome Kicono Ocen, Legal Officer.	Legal Officer	Makerere University	0772348673	1 st Oct 2020	Makerere University Freedom Square

INVESTIGATION REPORT INTO CAUSE OF FIRE AT MAKERERE UNIVERSITY MAIN BUILDING

	Name of Person Interviewed	Designation	Organisation	Telephone No.	Date of Interview	Venue of Interview
16	Ms. Naome Namuganga Namulasa, Administrative Secretary,	Administrative Secretary	Makerere University	0739581674 0756642308	1 st Oct 2020	Makerere University Freedom Square
17	Mr. Serunjonji Abdul Majid, Principal Assistant Bursar Salaries,	Principal Assistant Bursar Salaries	Makerere University	0751813418	1 st Oct 2020	Makerere University Freedom Square
18	Ms. Nakayofu Annette, Senior Administrative Assistant for University Secretary,	Senior Administrative Assistant for University Secretary	Makerere University	0772507240	1 st Oct 2020	Makerere University Freedom Square
19	Mr. Blaise Turyasingura, Administrative Assistant Finance,	Administrative Assistant Finance	Makerere University	0706395419 0780229895	1 st Oct 2020	Makerere University Freedom Square
20	Sergeant Enuke Justine	Sergeant in Charge Duties Sergeant No. 3656	Uganda Police Force	0785342884	1 st Oct 2020	Makerere University Freedom Square
21	Police Constable Kisekya Allan	Police Constable Force No. 67425	Makerere University	-	1 st Oct 2020	Makerere University Freedom Square
22	Ms. Angella Mabilirizi	Messenger, University Secretary's Office	Makerere University	-	1 st Oct 2020	Makerere University Freedom Square
23	SSP Saiga	Chief Security Officer Makerere University	Uganda Police Force	0704243486	1 st Oct 2020	Makerere University Freedom Square
24	Mr. Kato Godfrey	Accountant Salaries	Makerere University	-	1 st Oct 2020	Makerere University Freedom Square
25	Mr. Gordon Mulangira	PA to VC	Makerere University	0782323237	1 st Oct 2020	Makerere University Freedom Square
26	Prof. Barnabas Nawangwe	Vice Chancellor	Makerere University	-	6 th Oct 2020	Makerere University Freedom Square
27	Mr. Kato Lazarus, Mr. Paul Sebakakyi and Mr. Babumba Joseph	Electricians	Makerere University	0772638018 (Mr. Paul Sebakakyi) 0772618588/ 0753618588 (Mr. Babumba Joseph)	6 th Oct 2020	Makerere University Freedom Square

The discussions in the interviews are presented in this section.

2.2.1 Interview with Deputy Director Fire and Rescue, Mr. Kihanda Hassan

Mr. Kihanda Hassan got a telephone call at 12:49 a.m. informing him about the fire. When he reached the Main Building, the fire was in the northern wing. The whole northern wing was lit up. He said the fire spread very fast because the floor was made of wood and there were papers in the offices. He added that the fire spread to the upper floors because there were wooden partitions that did not touch the ceiling. In addition, there was no fire retardant door. The building was old and did not have a fire alarm.

Mr. Kihanda said that the fire and rescue department had never inspected the building because the university administration kept postponing inspection of the building.

2.2.2 Interview with Director Engineering, Makerere University, Eng. Christina Kakeeto

On the night of the fire she got a message from Darius and she called him. The Vice Chancellor had called Darius asking if there was a water point at the Main Building. Eng. Kakeeto called the VC who confirmed the Main Building was on fire. He said the northern wing was burnt and the fire was spreading to the southern wing. She reached the Main Building at 6:00 a.m. on Sunday 20th September 2002.

The Director Engineering, Eng. Christina Kakeeto said the structural makeup of the Main Building was brickwork and the columns were brickwork. She said that the floor sections were brickwork finished in wood or terrazzo, however the area where the fire started had purely wooden floors. The roof was purely made of timber and had been refurbished a year ago. The walls and floor of the Council Room were wooden. She said that paper in the offices contributed to the fire. Eng. Kakeeto said the conduit in the Main Building was metallic.

Eng. Kakeeto said that someone went in and switched off the electric power. She said that there is a central place for power in the Main Building. She added that wiring in the building was on the surface, and that power could be isolated on each floor.

Eng. Kakeeto said that her department had two electricians: Sebakakyi Paul and Kato Lazarus. The Estates and Works Department's structure allows for an Administrative Assistant, a Transport Officer, a Land Surveyor, a Housing Overseer and three civil engineers reporting to her. Wardens and custodians are part of the Estates and Works Department. There are also plumbers and electricians who report to the civil engineer. There is a gap in the structure in that there was supposed to be a senior technician to whom the electricians report. There is an Assistant Manager, Darius, although there is no manager to whom he reports. There is only one civil engineer, Ezra. There is a land surveyor, Carol Namutosi. The department has requested for an electrical engineer but has not got one. The team learned a lot on the job and handled things not in their docket, for example, Darius handles electrical issues. On joining the department, she found that Darius had been appointed to supervise the electricians, but this was not done in writing. She did not formalise his appointment. Most of the electrical problems are simple and the technicians will testify to that, and that is how Darius is able to understand the electrical problems.

Eng. Kakeeto said due to lack of funding they do reactive maintenance and not preventive and routine maintenance. Staffing levels are low and they have many areas to attend to. She said the Main Building would be her least area of attention because university management sits there and the custodian takes care of the building. The halls of residence are more vulnerable.

She was not aware that sockets in the Finance Department had been changed. She liaised with management to send her anything estate related to ascertain what was done before payment was effected. The University Secretary always sends the claims back to her. Eng. Kakeeto said houses were a challenge. She did not have a housing overseer, hence it is difficult to keep track of the houses. She however added that one cannot use university money to do estates work without her knowledge.

She said the department has a store where they keep things procured through the Procurement Department. They however did not have a storekeeper. They have asked for a storekeeper but have never gotten one. They have tried to procure materials but have failed. Systems in the University are all broken. Eng. Kakeeto said the Estates and Works Department prepared a detailed report that was presented to Council, on the state of the estates. The report included staffing needs, for example, the need for a Transport Officer. Council said they appreciated the report. Management is aware of the problems. The Government gives the department UGX 150,000,000 a year for maintenance. They are told that is the money available and should fit their budget within that. They also get money from the Capital Budget. Eng. Kakeeto presented a request for an assessment of wiring in the Main Building and an estimated amount for re-wiring of the Main Building. The department has no tools and equipment. She has done 300% for the University and has refused to get sucked in. At some point she was leaving the University. She did not want to apportion blame, but neither can she apportion blame to the Estates and Works Department. One cannot work without tools and human resources.

Eng. Kakeeto said that in 2018 she received a report of a fire scare. She was told there was something smoking on the light fitting. She has never seen communication from the fire department requesting to do an assessment of the Main Building.

2.2.3 Interview with University Bursar, Makerere University, Mr. Everest Beinomugisha

Mr. Everest Beinomugisha, the University Bursar said he was in the village when the fire incident occurred. He saw pictures of the fire on WhatsApp media. He started making telephone calls and was told that the Main Building was on fire. He travelled from the village and reached Kampala on the evening of Sunday 20th September 2020. He had personal documents in his office in the Main Building which were burnt.

Mr. Beinomugisha said that the corner of the floor where his office was located had wooden steps and a door. He added that the steps had been there for a long time. He said the second floor of the Main Building was occupied by the Public Relations Officer (PRO), the human resources office and audit office. The first floor of the building was occupied by the Vice Chancellor, Deputy Vice Chancellor (DVC) Finance & Administration, the University Secretary and the Deputy University Secretary. The ground floor of the building had the examinations office and accountants. He said there were steps leading from the PRO's office to the University Bursar's office. The steps were not carpeted. The treads of the steps were made of timber. His office had a carpet. Mr. Beinomugisha had the items below in his office:

- i) two filing cabinets,
- ii) two computers,
- iii) printer,
- iv) water dispenser and
- v) a small refrigerator.

There were two computers and a printer in his secretary's office. There was sanitiser at the entrance to his office. There was no safe and no fan in his office. Mr. Beinomugisha had sanitiser on his table and at the entrance to his office. The quantity of sanitiser on his table was less than half a litre.

Mr. Beinomugisha said that his duties as the University Bursar are supervision of financial planning and management. He said people with access keys to his office are the Manager Accounts & Reporting, cash office, salaries office and Manager Financial Reporting.

Mr. Beinomugisha said that the front entrance of the Main Building was always open, however there is a book that people entering the Main Building sign. The book is kept by university security.

Mr. Beinomugisha said the electricians from the Estates and Works Department handle safety in the building and Ms. Eunice handles the computers.

Mr. Beinomugisha said he did not have fire extinguishers in his office. The Main Building had Closed Circuit Television (CCTV) cameras. He however said that since he joined the University he had not come across expenditure on CCTV cameras.

With regard to exits on the Main Building, Mr. Beinomugisha said there is a main door and the main hall has an exit door on each side. There is no other exit from the Main Building. They considered the front exit as the emergency exit. The Custodian has the key to the doors at the main hall, but he does not know where the Custodian lives. Mr. Beinomugisha had never seen the evacuation plan of the Main Building. He had never seen a fire drill or fire alarm at the Main Building. The Main Building had a fire assembly point in the Freedom Square. He had never seen smoke detectors in the Main Building and had never approved purchase of smoke detectors.

Mr. Beinomugisha informed the investigation team that Mr. Lubowa Gyavira is the Manager Accounts & Reporting and Mr. Bukenya Vincent is the Accountant, and they have their own office. They were in the Main Building on official duty on Saturday 19th September 2020. They had routine work to do, with a deadline, which they may not have finished on Friday 18th September 2020. The work had a deadline. Mr. Lubowa Gyavira and Mr. Bukenya Vincent do reporting on a quarterly basis. There is no time limit for being at the University. The Revenue & Grants department had separate offices.

There are 53 staff who sued the University to be moved from M 6.1 to M 6.2. The staff won the case and the University want to appeal the ruling. There are very many labour disputes at the University.

His office did not experience problems with electricity. They ask staff to switch off all electrical equipment on leaving the office. They do not have a policy for switching off lights.

Mr. Beinomugisha did not know where fuel for the generator of the Main Building was stored.

He said the last renovations on the Main Building took place eight months ago.

Mr. Beinomugisha said there were no pending investigations, in his department, but there was an external audit going on. The audit began in May 2020. The documents being checked by the external auditors are in the Senior Common Room.

2.2.4 Interview with PRO, Ms. Rita Namisango

Ms. Namisango joined the University in 2006 as a volunteer. She became an Administrative Assistant and then the Assistant Public Relations Officer (PRO). She rose through the ranks to the position of PRO. Ms. Namisango's office was in Room 411 in the Main Building. She shared the office with Brands & Marketing and a Web person. She was last in office on Friday 18th September 2020, between 7:00 p.m. and 7:30 p.m. She was at the University because they were documenting a symposium which ended on Friday 18th September 2020. She went to the University again on Sunday 20th September 2020 at around 10:00 a.m. or 11:00 a.m.

She learned about the fire on the brief that was posted on the Makerere University social media page.

Her office was the last one in the corner, facing St. Augustine Chapel. The office had two computers and a laptop. The office also had valuable artefacts and bound newspapers. The office also had visitors chairs, a computer table and a cabinet. There was an electric kettle that was kept in the board room. The kettle was metallic and had a top plug. The kettle was plugged into an extension cable at the reception.

There was a carpet in her office, but other offices on the floor had a wooden floor.

The human resources office next to her also had a kettle for preparing tea. The human resources office was occupied by the secretary to the Director Human Resources, the office messenger, Mr. Kasita and the Senior Human Resources Officer, Mr. Lebu Julius.

Ms. Namisango said they complained to the Estates and Works Department about power problems. Power was on and off on the floor from March 2020. The office was hit by a lightning strike, as a result computers, printers and scanners stopped working. The lightning strike also affected the CCTV cameras. The ICT team said all offices on the second floor were affected by the lightning strike. This happened one or two years ago. Ms. Namisango said she saw the ICT and Estates and Works Department working on the electrical installations. She was given a new computer and some other computers were replaced. Some equipment was completely damaged.

A year ago, there were rats in the roof of the office that ate wires. They were however poisoned. The Local Area Network in her office was also affected by the rats.

On a weekly basis, power would flicker in the whole building and go off for about five minutes. Sometimes the custodian would say that the Estates and Works Department was working on the power.

Sanitiser for her office was requisitioned from the Chief Custodian and she did not store sanitiser in her office.

There were fire extinguishers in her office but there were no fire alarms and fire drills were not held in the Main Building.

Ms. Namisango said there was a time when the Main Building was going to burn. The fire started in the Central Registry.

Ms. Namisango said there was a position of Manager Communication & International Relations, and therefore she has no authority to speak on behalf of the University. His contract expired on 31st July 2020 and the position was advertised. She did not apply for the position. No one has been appointed to act in the position of Manager Communication & International Relations. Ms. Namisango coordinates communication for the University but is not the spokesperson for the University. She said she was happy at the University. Asked why she did not apply for the position of Manager Communication & International Relations, she said the first time round she had hoped the position would be advertised before someone was appointed. A member of staff was however appointed. The media reported that she was disappointed following appointment of a member of staff to the position. She said she worked well with the Manager Communication & International Relations. She did not apply when the position was advertised recently because she thought her boss would apply for the position. She insisted that she had no problem with the staff at Makerere University.

The Main Building had a first aid box in the Council Room, however no incidents were recorded.

Ms. Namisango heard of labour disputes in the Main Building. She listed labour disputes in the human resources office.

The servers in the ICT section are always powered and there is no policy on turning off lights and equipment in the Main Building.

2.2.5 Interview with Custodian Main Building, Mr. Ampeire Immy

Mr. Ampeire Immy is the custodian of the Main Building. He supervises cleaners and security guards, and opens and closes offices. His duties are to monitor the condition of the Main Building. The Custodian reports to the Estates and Works Department.

Mr. Ampeire normally leaves the University Bursar working in the Main Building at 9:00 p.m. or 10:00 p.m. People who work late have keys to their offices. He only has keys to the corridor and the common rooms. The main hall is only opened when there is a function. He has keys to the doors of the main hall.

He had ulcers on Saturday 19th September 2020, and went to the Main Building to get magnesium from the first aid box in the building. He lives in Nansana. The University gave him accommodation at Sir Apollo Kagwa. He uses the house at Sir Apollo Kagwa, but his family lives in Nansana.

Mr. Ampeire normally leaves the University Bursar working in the Main Building at 9:00 p.m. or 10:00 p.m. People who work late have keys to their offices. He only has keys to the corridor and the common rooms. The main hall is only opened when there is a function. He has keys to the doors of the main hall.

Mr. Ampeire said the Personal Assistant (PA) to the Vice Chancellor (VC) called him and told him about the fire at 1:30 a.m. on Sunday 20th September 2020.

In 2018 he was called in the middle of the night about a fire in the Central Registry. He said that the fire in the Central Registry was caused by old wiring.

Mr. Ampeire said there were power outages in the Main Building. In the past lightning destroyed computers and printers in the Main Building.

One of his roles is to switch on and off, and fuel the generator of the Main Building. Fuel for the generator is not stored on the premises. He buys fuel from the petrol station and fills the generator tank. He last filled the generator two weeks ago. He filled it with six 20 litres jerrycans of fuel. He placed the empty jerrycans behind the Main Building. Mr. Ampeire said the capacity of the generator's fuel tank was 300 litres. Mr. Ampeire switches the generator to auto mode in the morning and switches it off at night.

The cleaners experienced electric shocks while cleaning the floor of the Main Building. The complaint was lodged by a cleaner called Monicah. This was reported to Mr. Darius Muwanguzi the Assistant

Estates Manager and Mr. Paul Sebakakyi an electrician. It turned out that the cleaners would pour water on the floor when cleaning. Given that there were cracks in the floor, the cleaners would experience electric shocks when cleaning the area. He documented all his complaints to the Estates and Works Department.

At times power in the Main Building would go for six hours. A year ago, there was a problem in the power room when parts got burnt.

He wrote a report to the Director Engineering to install hose reels in the Main Building.

2.2.6 Interview with Civil Engineer, Eng. Ezra Sekadde

Eng. Ezra Sekadde is a Civil Engineer, Estates and Works Department. He started working at the University in 2008. His role is to look at general building components and structural elements of the buildings. He reports to the Director Engineering.

He heard about the fire on Sunday 20th September 2020, at 6:00 a.m., from Mr. Paul Sebakakyi. He rushed to the Main Building at 11:00 a.m. On arriving at the Main Building, he found the whole second floor had been burned. He saw the news of the fire on social media before he received the call.

The Main Building is a load bearing building, with a structural system based on walls. There is a printery in the basement. The ground floor has offices. The first floor had finance offices with a mezzanine floor made of timber and steel. The roof structure was purely timber, and the ceiling was made of soft board. The mezzanine floor was introduced in the void and accessed through a staircase of a composite of steel and timber. Structural repairs had not been done on the Main Building at the time of the fire. Minor renovations of the roof had been done because it was leaking. The roof tiles were removed and a Galvanised Iron (GI) sheet placed, then the roof tiles were replaced. He supervised repair of the roof which was done by a contractor, CK. This was done in 2019. The repairs to the roof did not tamper with the electrical installations. Painting was done internally in commonly used spaces and the main hall. The Estates and Works Department was developing a Preventive Maintenance plan. The last works carried out in the Main Building were renovations in September 2020.

There were fire extinguishers in the Main Building. Each floor had a fire extinguisher on either side. There was a plan to repair smoke detectors in the Main Building. The Estates and Works Department had been requesting for this. Two years ago, there was a fire drill in the Main Building. It involved showing staff how fire extinguishers were used. The University does not have an evacuation plan. Upgrades to buildings for fire safety are budgeted for annually, but the Estates and Works Department are always informed that there is no funding. The Estates and Works Department try to do their best with the resources they have. They have maintenance budget funds for small things. Big projects are pushed to the Capital Expenditure (CAPEX) budget.

Electrical installations in the Main Building were due for replacement and the Estates and Works Department kept budgeting for replacement of the electrical installations. Some of the issues were power not reaching certain offices. Eng. Sekadde was however not aware of electric shocks and lightning strikes in the Main Building. Complaints to the Estates and Works Department are received at the front desk of the Estates and Works Department, and sent to the officer in charge. These reports are logged in an incident log book. The custodian, Main Building receives all complaints and relays them to the Estates and Works Department.

There is no designated area for eating meals in the Main Building. There are canteens outside the Main Building where staff have meals.

Eng. Sekadde was aware of the rat problem in the Main Building. Two years ago, the building was fumigated.

Eng. Sekadde said he thought the fire at the Main Building was caused by an electrical problem. He attributed this to the fact that the electrical installations had not been overhauled. He however said that the wiring in the roof is on the soffit and the works on the roof did not tamper with the wiring.

The major electrical appliances on the second floor were computers, printers and ceiling fans. The void in the northern wing of the Main Building was killed and a floor was created.

2.2.7 Interview with Assistant Estates Manager, Mr. Darius Muwanguzi

Mr. Darius Muwanguzi is the Assistant Estates Manager, reporting to the Director Engineering. He started working in the Estates and Works Department in 2011. His role is to supervise repair and maintenance projects and to oversee infrastructure, i.e. roads and water in the University. Mr. Muwanguzi said that the electrical engineer retired and the electricians report to him. He has however not received formal communication on the electricians reporting to him. His role in the Estates and Works Department is. Mr. Muwanguzi was at the University on Saturday 19th September 2020, in Mitchel Hall.

Mr. Muwanguzi got a telephone call from the Vice Chancellor (VC) Makerere University at midnight, or around 1:00 a.m. The Vice Chancellor asked him if the University had water at the reservoir. He asked him to tell the staff to release water at the reservoir. Mr. Muwanguzi instructed the staff to release the water at the reservoir. The Vice Chancellor was advised to pick water from the main distribution point at the Main Building. Mr. Muwanguzi went to the Main Building on Sunday 20th September 2020 between 8:00 a.m. and 9:00 a.m. and found the site condoned off. He moved around with the fire brigade looking for fire hydrants. A fire hydrant was found at the eastern gate on Monday 21st September 2020.

Most of the electrical wiring in the Main Building was in the wall, in conduit, except in the addition in the northern wing, where the wires were on the surface. The wires were on the slab. There was a wooden ceiling on the second floor. The second floor had timber all through. The electrical wiring in the suspended ceiling was for lighting.

There were fire extinguishers in the corridors of the building.

The occupants of the Main Building complained to the Estates and Works Department about the University Secretary's wing not having power. No lightning strikes and electric shocks were however reported. When complaints come from users, they address them, for example, they have replaced circuit breakers. The decision to change the circuit breakers was made by the electricians. There is a book in the Estates and Works Department where jobs done are recorded.

They have never inspected electrical installations in the Main Building and have never done an electrical assessment of the building. Mr. Muwanguzi believed the building was earthed because there was a copper tape. He however did not know where the earthing manholes were located. The isolation point for the transformer is in the power room. The University has two feeders that are on bulk metering. When one meter runs out of units, the University switches to the second feeder.

The Main Building was fumigated.

In 2018, there was a spark in the Central Registry and not a fire. The choke was overheating and caused a spark. No report was made on the spark since it was not a major thing.

2.2.8 Interview with Electrician, Mr. Paul Sebakakyi

Mr. Paul Sebakakyi is an electrician with the Estates and Works Department of Makerere University. He has been an electrician at the University since 1993. He maintains electrical installations at the University. He has an Ordinary Diploma in Electrical Engineering from Kyambogo attained in 2005. He had a certificate in electrical installations from Busitema, at the time he started working at Makerere University. At the time he joined the University there were 24 electricians, and currently there are four electricians. There are manpower gaps since staff who retired or left the University have not been replaced.

On Saturday 19th September 2020, he switched off security lights at 8:00 a.m., at the Senate Building, JICA and Pool Road, before leaving the University. He returned to the University at 6:00 p.m. on the same day to switch on the lights, and then left the University.

Mr. Sebakakyi received a telephone call at midnight, on Sunday 20th September 2020, informing him that the Main Building was on fire. He drove to the Main Building and switched off the feeder pillar. The feeder pillar had fuses and wires. Power went off when he switched off the feeder pillar, but the fire was still raging. He went to the feeder pillar to switch off power in case it had been started by electricity. It took ten minutes to switch off the feeder pillar from when he was informed about the fire. By the time he switched off the feeder pillar the security lights and lights in the Main Building were on. The lights in the Main Building that were on could have been powered by the first floor consumer's units. Lights inside the Main Building are normally switched off at night. When he pulled out the fuses from the feeder pillar they were carrying current, because there was a small spark when the fuses came off. The fuses however did not make a big noise when they were pulled out.

Mr. Sebakakyi went to the Main Building after switching off the feeder pillar and showed the fire brigade the back and side access to the Main Building. While switching off the feeder pillar he saw fire coming out of the roof of the Main Building, on reaching the building, there was fire coming out of the windows.

Mr. Sebakakyi does not believe the fire was caused by an electric fault or a short circuit since the Main Building had circuit breakers.

Mr. Sebakakyi said they did not have an emergency procedure but use fire extinguishers when they are available.

When people have a problem in a building they report to the Estates and Works Department and the department follows it up. Mr. Sebakakyi said they do not carry out building inspections. They have never received any complaints about electric shocks, however they have been informed about power going on and off. Mr. Sebakakyi heard about the lightning strike at the University but this was not reported to the Estates and Works Department. There were copper tapes on the main building for lightning protection.

Power from the feeder pillar goes to the power room through an underground cable. This is a three phase supply. There are busbars in the power room from a rising main, taking power to each floor of the Main Building. The rising main runs through metallic conduit. Single phase power is taken to each floor. There are two consumer's units on each floor, one for lights and one for sockets. The consumer's units on the second floor that got burnt in the fire of 19th September 2020 were Crabtree consumer's units. Each floor had a 10 mm and 16 mm cable through the conduit from fuses to the consumer's units. Mr. Sebakakyi had never by-passed a consumer's unit on the Finance Department's floor.

Mr. Sebakakyi went to the power room on Monday 21st September 2020 to look at the circuit breakers. The circuit breakers had tripped where the fire occurred, i.e. in accounts office, University Bursar's office and the human resources office. He said the circuit breakers in the power room are not labelled, but he knows the circuits they supply power to. Mr. Sebakakyi said they had bulk metering for electricity at the University. There are sub-meters for pre-paid systems, but there is no sub-meter for the Main Building.

Mr. Sebakakyi said the northern wing had computers, stand fans and table fans only. It had no ceiling fans. There were no temporary power installations in the Main Building, however extension cables were in use. The tubes in the PRO's office were fluorescent tubes with chokes.

He had not received a report of rats in the Main Building.

There was no report on electrical problems in the Main Building. The only report received was that there were tubes on the first floor of the Main Building that were not working. The report was logged the week prior to the fire. The tubes and starters were replaced.

Mr. Sebakakyi said they fixed lights and the Main Distribution Board (MDB) at the Main Building after the COVID-19 pandemic lock down. He bought the MDB from Kiyembe. Mr. Sebakakyi bought the MDB himself because they were allowed to do self procurement for items that cost less than UGX 2,000,000. Mr. Tamale from the Estates and Works Department verified the MDB. Mr. Tamale retired from University service in April 2020. The Main Distribution Board was complete with circuit breakers. He picked on wires and fixed them into the circuit breakers. He said he did not know to which floor the circuits went. Some consumer's units were looped because the cable broke. There were fuses on the

MDB supplying lights and sockets on the ground floor. The ground floor consumer's units, i.e. on the stage, senior common room, custodians room and accounts were connected to fuses in the power room. The 63 A circuit breakers on the MDB are connected to the consumer's unit on the first floor. The 40 A circuit breaker in the MDB is connected to small main switches. He could not point out the main switches it was connected to. The consumer's units that got burnt on the second floor were connected to fuses in the MDB. The Public Relation Officer was connected to the consumer's units in the Finance Department. There were three consumers' units in the Finance Department, all connected to isolators in the power room. The Main Distribution Board was changed because the fuse boxes were bad and were sparking. People in the printery kept calling the Estates and Works Department saying there was something smelling. The Estates and Works Department eventually decided to change the MDB. A year ago, Mr. Kirabo, the Manager Printery, called him saying something was burning. He went to the power room with two interns and found the fuse smelling and sparking. The fuse was loose. They opened the loose fuse, replaced the wire and put back the fuse. The burning was caused by a loose connection in the fuse. Mr. Sebakakyi was asked why he knowingly bought 40 A and 32 A circuit breakers, and why he did not buy 63 A circuit breakers. He said there were no 63 A circuit breakers in the shop and they were going to change the circuit breakers to the appropriate ones in future. He was asked why he did not buy the circuit breakers from CHINT. He said that the proprietor of the shop where he bought the MDB said he would change the circuit breakers to 63 A circuit breakers in future.

Mr. Sebakakyi said there was also an incident on the first floor where a light was not working. It was blinking. He changed the tube and choke. He also replaced old tubes and starters on the ground floor. Mr. Sebakakyi said the water pump was powered from the first floor. Mr. Sebakakyi has never been called to reset circuit breakers that had tripped in the Main Building.

When the fire incident occurred in 2018, he was in Kabanyoro. There were sparks in a light fitting in the Central Registry which were about to cause a fire. He recanted his earlier statement on there being no fire incident in the Main Building, prior to the fire of 19th September 2020. When he returned from Kabanyoro, the ceiling of the Central Registry had been replaced. He does not remember having to replace a fuse after the fire incident in the Central Registry.

Mr. Kato Lazarus, one of the electricians once reported that the water pump was not working. He did not know what Mr. Kato did on the water pump, but a switch in the water pump room was non-functional. Mr. Sebakakyi said there is an automated water pump that pumps water to the tank. The pump was installed by the plumbers. He and Mr. Kato Lazarus, the other electrician were present when the pump was being connected to power. If there was a problem with the pump they would have to look for its power source as he did not know where it was powered from.

Mr. Sebakakyi did not know who made the dry joints in the wiring at the stage of the Main Hall. That was the only dry joint he had seen in the Main Building.

2.2.9 Interview with Electrician, Mr. Kato Lazarus

Mr. Kato Lazarus started working at Makerere University as an electrician in 1991. He has a certificate in electrical installations and carries out maintenance at the University.

He was in the power room on Saturday 19th September 2020 to switch on the generator. He disconnected power to the generator. The main switch was in the on position when he visited the power room, but the cut-outs were not plugged in. He does not know who removed the cut-outs. All the circuit breakers in the power room were on. He went to the power room to confirm that the changeover switch was on main power supply.

Mr. Paul Sebakakyi called him at 11:00 p.m. to tell him there was a fire at the Main Building. He went to the University the following day.

There were no electric shocks, power failures or lightning strikes reported in the Main Building. There is a book in the Estates and Works Department where problems are logged.

The CCTV cameras in the Main Building were not working. He did not know why the cameras were not working.

A 1 hp pump had been installed in the ceiling of the Main Building to pump water to the tank. Power was supplied to the pump with a 2.5 mm cable through a 20 A circuit breaker on the consumer's unit. The pump was replaced by a contractor.

The Main Building had stand fans but not ceiling fans. The Vice Chancellor's office had a faulty stand fan which the electricians replaced. Electrical installations in the printery were on the surface.

The electricians lack safety gear and tools. They are unable to carry out tests. They do not have an earth resistance meter or a multi-meter.

2.2.10 Interview with Manager Performance & Appraisal, Mr. Julius Lebo

Mr. Julius Lebo is the Manager Performance & Appraisal. He started working at Makerere University in 2015. His office was next to the PRO's office on the second floor of the northern wing of the Main Building.

On the evening of Saturday 19th September 2020, his phone blacked out so he took it to Wandegeya for repair. The shop in Wandegeya sent him to Lugogo where his phone was repaired. He returned to his office at 3:30 p.m. and charged his phone up to 3:40 p.m. When he switched on his phone on the morning of Sunday 20th September 2020, he saw a picture of the Main Building burning.

Mr. Lebo had files, a fan, a computer and a phone charger in his office. He was not using the fan in his office. The messenger makes tea using an automatic kettle. The kettle is plugged into a socket and they do not use an extension cable.

Mr. Lebo said there was a time he was working late in the Main Building, with his colleague working on the other side of the Main Building, when there was smoke on that side. They called the fire brigade and the police, who arrived and put out the fire. Mr. Lebo said the fire was from the electric wiring.

He also said there was a fire incident in 2018. It occurred during the day. They smelled cables burning, but there was no fire, so they did not pay attention to the smell of something burning. They however saw smoke and alerted people. By the time the people arrived the soft board had started flaming. He said power did not go off on this incident.

Mr. Lebo said there were rats in the Main Building, in 2017, and they were killed.

The fluorescent tubes in the Main Building used to be changed. Power in the sockets would go off, but not often. He remembered cleaners talking about getting electric shocks near the tower. There was a time when they went to office and found the computers spoiled and they could not be repaired. This occurred last year.

Mr. Lebo does not smoke.

Most offices in the Main Building had sanitiser. Initially he did not have sanitiser in his office, but when people went to his office to tell him they had COVID-19, he got sanitiser for his office.

The University did not have a comprehensive policy on safety and health, as it was being debated. Ms. Apolot Josephine can answer questions on the policy.

There are many labour disputes at the University, including court cases. One of his roles is to sort out the cases.

2.2.11 Interview with Labour Relations Officer, Ms. Janet Nabukera

Ms. Janet Nabukera, the Labour Relations Officer started working in that position on 1st July 2014. She served in that position until 8th September 2020, when she was transferred to the School of Law and College of Computer Science, as the College Human Resources Officer. She has a Bachelor of Arts in Arts and a Masters in Human Resources



Ms. Nabukera handles grievances, staff welfare, University staff associations, Makerere University Academic Staff Association (MUASA) and trade unions. She represents the University in court cases, the district labour office and at Kampala Capital City Authority (KCCA). Ms. Nabukera stands in as a witness on the board, in labour court cases involving staff. She also manages leave schedules for all administrative units, and carries out conflict resolution, guidance and counselling.

On Friday 18th September 2020, she went to College of Computer Science (CoCS), the Senate Building for passport size photographs and African Institute for Capacity Building. She had a meeting on the new workstation. She was at home on Saturday 19th September 2020. She dropped her family in Kajjansi and went back home. She woke up at 1:00 a.m. and saw Oprah news on her phone reporting a fire at Makerere University. She switched on NTV and watched news of the fire at the Main Building. Ms. Nabukera was called to the University on Monday 21st September 2020 about loss of a member of staff. She was to coordinate release of the body. She also went to the University on Tuesday 22nd September 2020 to meet with the investigation team who were too busy to meet with her.

She said power problems at the Main Building were routine. In 2018, there was a case of fire in the ceiling of the Central Registry. She heard about the fire from colleagues. They said wires started burning in the ceiling of the Central Registry.

Old computers in the department were replaced and everyone in her department had a new computer. There were stand fans in the department. She used to pass by the departmental kettle and it looked okay. She had never seen lightning strikes or heard of electric shocks in the Main Building.

Ms. Nabukera said there were many wrangles in the University but they were handled in different fora. She requested for a transfer from her position. She was not comfortable with the working environment. The staff was against her. The warden and the Deputy Dean of Students resigned during the COVID-19 lockdown. The Director Legal Services and Director Human Resources also resigned. The Director Human Resources kept his resignation to himself. He did not inform his colleagues. She did not witness a formal handover by the Director of Human Resources. She did not know whether the Director Human Resources has keys to his office because the office was always opened for him.

2.2.12 Interview with Electrician, Mr. Babumba Joseph

Mr. Babumba Joseph is an electrician working with the Estates and Works Department of the University. He has been working at Makerere University for 39 years. He obtained a certificate in electrical installations in 1991.

On Saturday 19th September 2020, he was at home in Kaya. His friend Juma called him and informed him that the Main Building was burning. He went to the University on Monday 21st September 2020 and had not visited the Main Building since then.

At first Mr. Babumba said did not know about the fire incident in 2018. He said his knowledge of the fire was that a choke was burning and it was replaced by Mr. Sebakakyi, the other electrician. He recanted his statement during a second interview and said there was a fire in the Central Registry. The ceiling board caught fire and was replaced by the carpenter.

The roof was replaced and electrical wiring was redone in the Main Building 15 years ago. Wiring in the ceiling was partially in conduit and partially on the surface. Lights were also changed. Some consumer's units were replaced with CHINT consumer's units two years ago. The Main Circuit Breakers of the CHINT consumer's unit were rated 100 A. Two years ago, rats ate cables on the first floor of the Main Building. 10 m of cable were eaten and they were replaced. This occurred on the first floor of the Main Building. He said new sockets were installed. All consumer's units on the floors were replaced following this incident. Cables were replaced from the first socket affected to the second socket affected. The main switch was changed from fuses to circuit breakers because the load was increasing. There are records of requisitions for materials. Mr. Babumba made a requisition when cables were eaten by rats and were being replaced. The records can be found in the stores.

The lighting fittings in the University's Bursar's office and the human resources office were not the same. Each floor had two main switches, one for sockets and another for lights. Old wires in the Main Building were pulled out or disconnected completely. Wiring in the finance office on the ground floor was

NR

BM

[Handwritten signature]

A+G

101

changed by a contractor. The wiring was done in trunking. There were fans in the Main Building. Mr. Babumba insisted that the water pump was for ground floor water tanks and not water tanks on the roof.

Electric shocks were experienced when the roof was leaking. After the roof was repaired the electric shocks were not heard of. The leakage was on the top floor. Mr. Babumba worked on earthing, and did bonding. The electric shocks were felt in the area with the leakage. He did not measure the earth resistance after working on the earthing because he did not have an earth resistance meter. Sockets supplying power to the computers were added to the first floor of the Main Building. Trunking was installed and cables were run from existing sockets through the trunking. Wiring in the Main Building was redone 15 years ago. The wiring on the second floor was changed. Two electricians supervised the works carried out by a contractor. The electrician who supervised the works, Mr. Mukasa passed on, his assistant Mr. Waiswa Grace also passed on. The Main Building had cabling with rubber insulation which was replaced with 2.5 mm² PVC insulated cables. There were also junction boxes in the ceiling which were replaced. The consumer's units on the second floor were not replaced.

Mr. Babumba did not think the cause of the fire was electrical, given the number of years he has worked at the University.

2.2.13 Interview with Messenger, Ms. Nakimuli Miriam

Ms. Nakimuli works in the Human Resources Department making tea, filing, delivering and receiving letters. She started working at the University on 3rd March 1999.

She was at the University on Thursday 17th September 2020, in the evening. Her friend sent her a picture of the Main Building on burning, on Whatsapp media. She went to the University on Monday 21st September 2020. She also saw the news of the fire on Ekyankya on Bukeede TV.

The department had a very old Philips kettle. In her absence the department staff do not take tea. No one touches the cupboard with the kettle. Ms. Nakimuli said she is keen and careful and has never forgotten to switch off the kettle and keep it. There was a time when lights in the department were on but there was no power in the sockets. Estates and Works Department staff rectified the problem. Five years ago, the Estates and Works Department installed a socket for use when boiling tea. The socket was not burnt, it was clean and okay. She did not experience electric shocks in the office and had not received communication from the cleaners on electric shocks. One of her supervisors had a fan. Their offices were like cages and they had many extension cables. The extension cables were of good quality.

She heard about the fire in the Central Registry.

They had many rats in the department, but the Estates and Works Department worked on that. It is over one and half years since they had rats in the department.

She had never seen anyone smoking in the department.

2.2.14 Interview with Accountant, Office of University Bursar, Ms. Consolata Komugisha

Ms. Komugisha sat in Room 312 on the first floor of the northern wing of the Main Building. Ms. Komugisha left the Main Building on Friday 18th September 2020, at 5:00 p.m. She also went to her office on Saturday 19th September 2020. After the fire she first returned to the Main Building on Sunday 20th September 2020, at 8:00 a.m. to pick documents from her office. She was only able to pick documents from her office at 2:00 p.m. on Sunday 20th September 2020, as access to the building had been denied.

Ms. Komugisha had a computer and wall fans in her office. The office was partitioned two years ago and the lights were repositioned. Her fan was about one and a half years old and was plugged into a wall socket. She did not use the fan on Friday 18th September 2020. She used an extension cable in her office, which she always unplugged after work. She had never seen sparks from the extension cable. Ms. Komugisha said she unplugged all electrical appliances when she left the office. She did not have a kettle in her office and would come to work with her tea, or get tea from the tea ladies.

She heard there was sort of a fire in the Central Registry.

She had not heard of electric shocks in the building.

There were no rats in the office.

There were no smokers in the offices.

She had never seen any lights flickering in the Main Building.

2.2.15 Interview with Legal Officer, Ms. Naome Kiconco Ocen

Ms. Kiconco has worked with the University Secretary's office since 3rd August 2010. She has occupied her current office since March 2019. She was not at the University on Saturday 19th September 2020. She had left the University on Friday 18th September 2020, between 3:00 p.m. and 4:00 p.m. She told her boss she was tired and left the office. Ms. Kiconco works from Monday to Friday. If she has extra work to do she goes into office on Saturday or Sunday. Officers have keys to their offices, however there is someone at the main entrance of the building controlling people entering the building. She first went to the Main Building on Tuesday 22nd September 2020 or Wednesday 23rd September 2020. She could not remember the date of the first time she returned to the Main Building after the fire. She went to the Main Building to pick files with Ms. Annette Nakayofu, the Senior Administrative Assistant of the University Secretary, Ms. Angela Mibirizi, Messenger University Secretary's Office, Ms. Jennifer, the Messenger, Mr. Kagwe, the Driver and Ms. Consolata Komugisha, Accountant Office of University Bursar. They went to the Main Building in the afternoon. Ms. Kiconco also went to the University on Sunday 20th September, but could not access the Main Building.

The computer and light in her office were not faulty. There was no fan in the office. She had an extension cable for the computer. Ms. Kiconco brought tea to work and when required she would get hot water from what was boiled at the office.

She had not heard of electrical problems in her office. She however heard that there was a fire in the Main Building, but did not know what caused the fire. There were times when there was no power in the Main Building and they would run on generator.

She was hesitant to respond to the question on the possible cause of the fire in the Main Building, but eventually said it could have been caused by sparks.

2.2.16 Interview with Administrative Secretary, Ms. Naome Namuganga Namulasa

Ms. Namuganga started working at the University in 2016. She oversees all activities in the University Bursar's office, i.e. handling petty cash, and receiving and filing documents. She left office on Friday 18th September 2020, between 6:00 p.m. and 7:00 p.m. She went to the Main Building on Saturday 19th September 2020. She had not been to the Main Building since. Ms. Namuganga listed the people on her floor who had been working before the fire, as below.

- Ms. Naome Namuganga Namulasa,
- University Bursar,
- Mr. Serunjonji Abdul Majid,
- Ms. Joyce Ayeko,
- Mr. Buyi Jonathan and
- Mr. Kato Godfrey.

Ms. Kamoga Gladys, one of the secretaries in the University Bursar's office had not been working since March 2020.

Ms. Namuganga had a refrigerator in the office. They did not leave the refrigerator on when they were not in office. In addition, they did not regularly switch on the refrigerator. They had a kettle which was used by the messenger. The kettle was placed on a table. Ms. Namuganga had four extension cables in her office. The refrigerator, kettle, computers and water dispenser were powered through extension cables. The refrigerator had a fridge guard. The extension cables in her office were the rectangular

type. The printer and photocopier in the University Bursar's office were plugged into wall sockets. There was a scanner in Ms. Naome Kiconco Ocen's office that was plugged into a wall socket.

Ms. Namuganga said two lights in her office blew and were replaced. The lights were flickering before they were replaced. The cord of the fan in the University Bursar's office was faulty and had not been replaced. It was a rare occurrence that the Main Building would have power and other surrounding buildings would not have power.

She heard about the fire in the Main Building in 2018. She heard people talking about it.

2.2.17 Interview with Principal Assistant Bursar, Salaries, Mr. Serunjonji Abdu Majid

Mr. Serunjonji has been working with Makerere University for 20 years. He started working at the University in February 2020. He was in the Main Building on Friday 18th September 2020, and left at 2:00 p.m. He was in Jinja when he saw news on the fire, at 10:00 a.m. on Sunday 20th September 2020.

Mr. Serunjonji's office had a water dispenser from where they got hot water for tea. Each person in the office had an extension cable. The office also had a water dispenser and a UPS, both were plugged into a wall socket. The office did not have a microwave.

He said since two years ago, only one bulb has been changed in his office. The Estates and Works Department was called and they changed the bulb. He said there was a time when power burnt out the internet switches in the Main Building.

Regarding the fire incident in 2018, Mr. Serunjonji said they were told the Central Registry caught fire and someone saw it and called the police.

Mr. Serunjonji did not know of any smoker in the building.

Asked whether there were labour disputes in the University, he said the relationship between MUASA and management was okay and there were no strikes at the University. He however said that they had been requesting for allowances which had not been paid. The University Secretary had asked them to be patient, and they had been having discussions with him.

2.2.18 Interview with Senior Administrative Assistant of the University Secretary, Ms. Nakayofu Annette

Ms. Nakayofu has been working at Makerere University since 1995. She started working in the Main Building in 2010. She was on leave the whole of September 2020. She went the University on Sunday 20th September 2020, at 8:30 a.m. and stood outside the Main Building. Her boss called her at 2:30 p.m. on Monday 21st September 2020 to open the safe. She opened the safe at 5:30 p.m. on the same day. She took somethings out of the safe that were not burnt. There were land titles in the safe. Her duties are to draft letters for payment and appointments.

Ms. Nakayofu had a kettle, refrigerator, UPS, printer, photocopier and computer in her office. The refrigerator was in good condition. It was an LG brand refrigerator purchased a year ago. The refrigerator and kettle were powered from an extension cable. The University Secretary's office also had an extension cable.

At times the fluorescent lamps in her office would flicker. They had however not had power problems in the office.

2.2.19 Interview with Administrative Assistant, Finance, Mr. Blaise Turyasingura

Mr. Turyasingura is the focal person for the AIMS system controlling all student data. He monitors all revenue run through the system. He started working with Makerere University in 2016, in the Main Building. Mr. Turyasingura has a Bachelor of Science in Information Science and ACCA certification. He was last in the University on Friday 18th September 2020 at 4:00 p.m. He was addressing problems the students had. Ms. Betty Aye shares a desk with him, but she has not been at work for two weeks.

There were two extension cables in Mr. Turyasingura office. He took tea from the ground floor.

There was a light in his office with a pull switch that was non-functional. This was reported to the custodian in December 2019, but had not been rectified. As a result, the light in his office was left on permanently. When the switch was pulled, it would click but would not go off. They did not log a written complaint on the light, but told the custodian verbally that the light was not working.

2.2.20 Interview with Sergeant No. 3656, Sergeant in Charge Duties, Enuke Justine

Sergeant Enuke received a telephone call from Command Centre Naguru around 0048 hours reporting a fire in Makerere University. A fire truck commanded by him was dispatched at 0050 hours. On arriving at Makerere University main gate, he saw the flames and called the fire brigade to send as many trucks as possible. He reached the Main Building at 0054 hours. He was coming from Clock Tower. The two windows/floors from the top of the building were on fire, stretching to the other side of the building. He called the fire brigade again requesting for more trucks. When he reached the Main Building lights at the reception and the ground floor were on. It took 20 minutes to switch off power in the Main Building. The lights were switched off as they were fighting the fire. The fire was more intense from the back of the Main Building, facing the church, on the topmost floor. The fire was moving from the back side of the building to the front. He thought the fire started at the back side of the Main Building. It took six hours to put out the initial fire. They had to bring in more water to mop up.

Prior to the fire, they had advised Makerere University about fire hydrants, and the University insisted that they had a fire hydrant. On Sunday 20th September 2020, they looked for a fire hydrant and only found one which had not pressure. They were told there was a fire hydrant in Wandegeya, but this cannot serve Makerere University. They were also informed that there is a water booster pump in Makerere University. This booster pump is not on the fire brigade system.

2.2.21 Interview with Police Constable Kisekya Allan Force No. 67425

Police Constable Kisekya Allan is attached to Old Kampala Police Division. He is resident at Makerere University behind Counselling & Guidance. He is a communicator. On Saturday 19th September 2020, his coursemate called him to guide her on writing an internship report. At 11:00 p.m., he went to her place at Paradise Hostel to help her. He left her place at 19 minutes to midnight. He passed the front of the Main Building on the tarmac, and saw smoke coming out of the second window facing the Freedom Square, on the last floor of the building. He went to the main door of the building to alert the officers. He shouted at the main door for a long time but there seemed to be no one inside. He called OC Station at 12:32 a.m. He also called Sergeant Ojok and told him the Main Building was burning. He also called the Controller on 0800122291 and asked him to send the fire brigade to the Main Building. After the third call, flames were coming out of the third window on the second floor of the building, facing the Freedom Square. Police Constable Kisekya called Afande Mutumba who said he was in Nateete and would call Major Muhwezi. Major Muhwezi arrived at the scene on a motorcycle. The Chief of Security and the Vice Chancellor also arrived at the scene. A small fire truck arrived at the scene. It had no crane and did not do much. Later a second fire truck was sent. There was light at the entrance of the building, although he was not observant enough to note whether the lights in the offices of the northern wing of the building were on. He did not hear any noise like an explosion. The security lights were on and lights in the offices of the southern wing were off.

2.2.22 Interview with Messenger University Secretary's Office, Ms. Angella Mbirizi

Ms. Angella Mbirizi has worked at the Main Building for three years. Her duties are to receive and record letters received, and receive telephone calls.

Ms. Mbirizi always reports to office at 7:00 a.m. and opens the office. She left the office on Friday 18th September 2020 at 5:00 p.m. She was the last one to leave the office and she locked the door.

Her office had an extension cable, of England type, white in colour. The office also had a refrigerator of LG brand, that had been there for one year. They switch off the refrigerator at night, when leaving the office. She boiled tea in the office. There was no sink in the office. They got water from outside the office and washed dishes from outside the office.

Staff from Estates and Works Department change lights in the offices. She however could not recall when they last changed lights in the office.

She went to the Main Building at 2:00 a.m. on Sunday 20th September 2020, since she lives behind the University.

2.2.23 Interview with Chief Security Officer Makerere University, SSP Saiga

SSP Saiga joined Makerere University as Chief Security Officer on 28th January 2020. His role is to coordinate security agencies in Makerere University. SSP Saiga lives behind the library and was at home when he got a telephone call from OC Station, at 12:40 a.m. OC Station informed him that smoke had been seen coming out of the roof of the Main Building. He reached the Main Building in seven minutes. He did not see flames but saw dark smoke coming out of the roof of the Main Building. He called the VC and Deputy VC Finance & Administration. SSP Saiga saw fire coming out of the roof on the other side of the main building, facing the church. SSP Saiga asked Major Muwhezi where their guards were. He went to the main door of the Main Building and shook the door. He heard movement inside the Main Building, people were coming from the main hall. He met Wankonko the Makerere University security guard who said he was sleeping in the main hall and could hear noise but thought it was raining. SSP Saiga entered the Main Building and went up to the second floor. The fire was raging on the second floor. The wind was blowing the fire towards the staircase. Power was on in the southern wing of the building, but there was no power in the northern wing. SSP Saiga told the fire fighters to continue fighting the fire and stop it from crossing to the southern wing. The fire fighters said they did not have the capacity to fight fire on both sides of the building and sought guidance from SSP Saiga. The fire trucks they had did not have the capacity to fight the fire on the second floor. They connected hoses through the corridors up to the second floor. The fire brigade ran out of water, but got more water. The police fought the fire and seemed to have contained it, almost up to the tower. The fire was however moving to the roof. Ms. Consolata Komugisha's office, the Accountant, Office of University Bursar got burnt at 5:00 a.m. SSP Saiga entered the University Secretary's office before it got burnt. At that time the fire had burnt the salaries office and the University Bursar's office. Smoke was entering Ms. Komugisha's office and the University Bursar's office. This was at around 3:00 a.m. SSP Saiga said by 4:00 a.m. the fire had been put out and the University Secretary's office was intact. The fire brigade then left the Main Building. SSP Saiga noted that smoke was building up in the Main Building and informed the fire brigade. The fire brigade told him that it was heat in the walls causing the smoke build up. SSP Saiga saw a lot of smoke from the Legal Officer's office. He called the VC, the University Secretary and the fire brigade. Five minutes later he saw fire coming out of the Legal Officer's office. The fire brigade responded 20 minutes after the call was made, but the fire had already burnt the University Secretary's Office. This was at 5:00 a.m. The roof of the northern wing had collapsed by 3:00 a.m. The fire brigade fought and contained the fire in the University Secretary's office for one hour. They were spraying water towards one window that was burning. This was the window of the Legal Officer's office.

On Sunday 20th September 2020, at 11:00 a.m., items were removed from the VC's and DVC's offices and from some other offices that were not burnt. Remnants of fire were noted in the corner of the building at the Human Resources office. ISO called SSP Saiga and informed him about the remnants of fire. Fire brigade poured a lot of water in the building to ensure there was no more fire. At 7:00 p.m. on Sunday 20th September 2020 smoke was seen coming out of the building. SSP Saiga thought there could be remnants of fire. He went to pray, from where he received a telephone call from Afande telling him there was fire in the Main Building. He called the fire brigade. There were flames coming out of the window near the VC's office. The fire brigade took 30 to 40 minutes to reach the Main Building. They put out the fire which had reached the Council Room. SSP Saiga said the fire started in the Council Room.

2.2.24 Interview with Accountant Salaries, Mr. Kato Godfrey

Mr. Kato Godfrey is an accountant under the salaries section of the Finance Department. He started working at the University in the Main Building as an accountant in 1993. Thursday 17th September 2020 was the last time he was in the Main Building. He does not work at the University throughout the week because of the cost of coming to the University. He left the University at around 5:00 p.m.

NA

There was a light in his office which was constantly on because they did not know the location of the light switch. There was surface wiring along the skirting in his office. They also had extension cables in the office. The cable from his UPS was plugged into an extension cable. His phone charger was also plugged into an extension cable. There was a printer in his office connected to his colleague, Ms. Joyce Ayoko's computer. There was a kettle in his office and the socket used by the kettle was up on the wall. The wiring in his office was very old. He had however never seen sparks in the wiring. Mr. Kato had a stand fan in his office but it was non-functional. He however said they did not use fans in the office because fans raised dust from the floor.

2.2.25 Interview with Personal Assistant to Vice Chancellor Makerere University, Mr. Gordon Murangira

Mr. Gordon Murangira is the Personal Assistant (PA) to the VC, a position he has served in for the last three years. He started working at Makerere University in 2003. His appointment at the University is Principal Registrar. He worked the whole day on Friday 18th September 2020 and left shortly after 5:00 p.m. He got a telephone call at 12:58 a.m., from the Acting, DVC Finance & Administration, informing him that there was a fire at Makerere University, and that he should go to the Main Building. He was at the Main Building by 1:00 a.m. A few minutes after his arrival, the fire trucks arrived.

The fire was on the second floor. He went to the back of the Main Building, i.e. the side of St. Augustine Church. At that time the fire had not gone through the roof. The office of the PRO and the lobby in front of her office were on fire. The staircase and the ICT office in the northern wing of the first floor were lit. The fire was raging in the PRO's and neighbouring offices and in the lobby of the offices. The fire progressed towards the wooden staircase, kept burning and could be seen through the wooden staircase. The fire progressed and burnt all these areas, and started moving downwards as Mr. Mulangira was watching. The fire brigade had small trucks that could not pump water inside the building. There was a challenge with access to the building. It was suggested to the fire brigade that they run the concrete ballasts over to access the building, but they did not do so.

The pictures of the fire on Mr. Mulangira's phone were checked by the investigation team. At 1:10 a.m., 1:17 a.m. and 1:24 a.m. lights in the Main Building were on. The fire had consumed the entire roof of the Main Building and the roof was beginning to cave in. The lights were still on. A picture on Mr. Mulangira's phone shows that lights in the building were off at 1:35 a.m. By that time the roof above the PRO's office had caved in. The fire continued to consume the rest of the roof towards the tower. The office lights in the southern wing of the building were not on by this time.

At 1:30 a.m., the fire progressed to the tower and was also moving towards Mr. Mulangira's office. He wanted to pick valuable things from his office so he went home for his car. He returned to the Main Building with his car and went to his office. At around 2:00 a.m. he picked artefacts from his office. He went to the VC's office, opened windows and started ferrying things from the office, following which he ferried things from his office. This was at around 3:00 a.m. By the time he started picking things from his office, the fire had crossed from the northern wing of the building to the southern wing, through the back of the building.

The Council Room was opened at around 1:00 p.m. on Sunday 20th September 2020. A thick cloud of smoke came out of the room when the door was opened. The room was extremely hot and one could not see anything inside the room. The fluorescent lamps in the room had popped out of the slab.

There was insufficient manpower to man the fire trucks. Mr. Mulangira believes the fire could have been put out by 3:00 a.m. or 4:00 a.m. and could have been prevented from reaching the tower. He witnessed time wasting and debate on where to get water from. He even suggested to the fire brigade that they should drain the swimming pool for water.

2.2.26 Interview with Vice Chancellor Makerere University, Prof. Barnabas Nawangwe

Prof. Nawangwe received a telephone call from the Chief Security Officer, Makerere University, on Sunday 20th September at 1:00 a.m. The Chief Security Officer told him the Main Building was on fire. When Prof. Nawangwe arrived at the Main Building, the fire was still small. A minute after Prof. Nawangwe's arrival, the fire started coming out of the roof. This was mainly coming out at the front of the building. Prof. Nawangwe said he reached the Main Building at 1:05 a.m. and at 1:10 a.m. the fire

There was a light in his office which was constantly on because they did not know the location of the light switch. There was surface wiring along the skirting in his office. They also had extension cables in the office. The cable from his UPS was plugged into an extension cable. His phone charger was also plugged into an extension cable. There was a printer in his office connected to his colleague, Ms. Joyce Ayoko's computer. There was a kettle in his office and the socket used by the kettle was up on the wall. The wiring in his office was very old. He had however never seen sparks in the wiring. Mr. Kato had a stand fan in his office but it was non-functional. He however said they did not use fans in the office because fans raised dust from the floor.

2.2.25 Interview with Personal Assistant to Vice Chancellor Makerere University, Mr. Gordon Murangira

Mr. Gordon Murangira is the Personal Assistant (PA) to the VC, a position he has served in for the last three years. He started working at Makerere University in 2003. His appointment at the University is Principal Registrar. He worked the whole day on Friday 18th September 2020 and left shortly after 5:00 p.m. He got a telephone call at 12:58 a.m., from the Acting. DVC Finance & Administration, informing him that there was a fire at Makerere University, and that he should go to the Main Building. He was at the Main Building by 1:00 a.m. A few minutes after his arrival, the fire trucks arrived.

The fire was on the second floor. He went to the back of the Main Building, i.e. the side of St. Augustine Church. At that time the fire had not gone through the roof. The office of the PRO and the lobby in front of her office were on fire. The staircase and the ICT office in the northern wing of the first floor were lit. The fire was raging in the PRO's and neighbouring offices and in the lobby of the offices. The fire progressed towards the wooden staircase, kept burning and could be seen through the wooden staircase. The fire progressed and burnt all these areas, and started moving downwards as Mr. Mulangira was watching. The fire brigade had small trucks that could not pump water inside the building. There was a challenge with access to the building. It was suggested to the fire brigade that they run the concrete ballasts over to access the building, but they did not do so.

The pictures of the fire on Mr. Mulangira's phone were checked by the investigation team. At 1:10 a.m., 1:17 a.m. and 1:24 a.m. lights in the Main Building were on. The fire had consumed the entire roof of the Main Building and the roof was beginning to cave in. The lights were still on. A picture on Mr. Mulangira's phone shows that lights in the building were off at 1:35 a.m. By that time the roof above the PRO's office had caved in. The fire continued to consume the rest of the roof towards the tower. The office lights in the southern wing of the building were not on by this time.

At 1:30 a.m., the fire progressed to the tower and was also moving towards Mr. Mulangira's office. He wanted to pick valuable things from his office so he went home for his car. He returned to the Main Building with his car and went to his office. At around 2:00 a.m. he picked artefacts from his office. He went to the VC's office, opened windows and started ferrying things from the office, following which he ferried things from his office. This was at around 3:00 a.m. By the time he started picking things from his office, the fire had crossed from the northern wing of the building to the southern wing, through the back of the building.

The Council Room was opened at around 1:00 p.m. on Sunday 20th September 2020. A thick cloud of smoke came out of the room when the door was opened. The room was extremely hot and one could not see anything inside the room. The fluorescent lamps in the room had popped out of the slab.

There was insufficient manpower to man the fire trucks. Mr. Mulangira believes the fire could have been put out by 3:00 a.m. or 4:00 a.m. and could have been prevented from reaching the tower. He witnessed time wasting and debate on where to get water from. He even suggested to the fire brigade that they should drain the swimming pool for water.

2.2.26 Interview with Vice Chancellor Makerere University, Prof. Barnabas Nawangwe

Prof. Nawangwe received a telephone call from the Chief Security Officer, Makerere University, on Sunday 20th September at 1:00 a.m. The Chief Security Officer told him the Main Building was on fire. When Prof. Nawangwe arrived at the Main Building, the fire was still small. A minute after Prof. Nawangwe's arrival, the fire started coming out of the roof. This was mainly coming out at the front of the building. Prof. Nawangwe said he reached the Main Building at 1:05 a.m. and at 1:10 a.m. the fire

truck arrived. The fire brigade came to the scene unprepared with an old truck. They started pumping water to the building and it was being wasted, as they were directing the water to the window. The fire brigade was pointing the hose to the front of the building and fire was raging at the back of the building. A second similar fire truck arrived, which tried to go to the back of the building through the Faculty of Agriculture side. The second fire truck did not pour water onto the building. A third fire truck that had a crane was sent. The third fire truck poured water through the roof, but by then the roof was collapsing. Prof. Nawangwe said it was over an hour before the fire brigade trucks arrived at the Main Hall, and by then the fire had destroyed the offices and was spreading to the tower. If the second and third trucks had come earlier and directed jets of water towards the fire, the Main Building could have been saved. The fire brigade sent a weak vehicle at first, and when they sent a strong vehicle, they did not know how to use it. The latter vehicle was computerised and they struggled with it for 30 minutes. There is a fire hydrant near the Estates and Works Department that is buried in the soil. There is also a fire hydrant at Wandegeya market that has never been connected to the water mains. The next nearest fire hydrant is at Nakulabye.

The fire spread because the ceiling of the Main Building was wooden. The main hall was not touched because there is a buffer in between. The roof fell on timber and encountered a void. The whole thing then collapsed. He explained to the investigation team the structure of the northern wing of the Main Building. There were timber decks, timber staircases and timber partitions in the Main Building. The timber deck started at the end of the concrete. There was a ground, floor, two mezzanine floors and the top floor. The floor levels in the northern wing of the building were not the same as those in the southern wing of the building, except for the top floor of the building. There were two mezzanine floors below the top floor, arranged around a void.

The fire brigade almost put out the fire, according to Prof. Nawangwe. At that time the fire had not reached the Central Registry. They ran out of water and went to get more water. By the time the fire brigade returned, the Central Registry had burned. The fire brigade put out the fire, but Prof. Nawangwe said that he kept seeing smoke and told them there was still fire. The fire brigade however told him that it was just smoke coming out of the building. The group and the fire brigade then left the Main Building and Prof. Nawangwe went home.

Prof. Nawangwe's first assumption on the cause of the fire was that since it was an old building, it had old wires. Two years ago, there was a fire in the ceiling of the Central Registry. There was also a fire a few years ago in the Finance Department, caused by an electrical fault. The roof of the building was always full of rodents. The key issue in the Main Building was old wiring. The Estates and Works Department had always pointed out the old wiring. The Capital Expenditure and maintenance budgets of the University were outside their control. The Estates and Works Department estimate that they require UGX 60 billion to overhaul the infrastructure. The Estates and Works Department receives UGX 150 million annually from the ministry for maintenance. One cannot move a shilling from one budget line to another. Maintenance is the last priority at the University. The first is staff, second is students and the third teaching material.

The University had been going through staff restructuring. The plan for the Estates and Works Department is to keep a lean staff of high level architects and engineers, and outsource maintenance work. The University has framework contracts with people who come in to do maintenance. The Estates and Works Department then keeps a lean structure. They advertised for an electrical engineer and architect, but the University pays too little to attract good candidates for these positions.

Prof. Nawangwe said the Main Building had fire fighting equipment, i.e. fire extinguishers and hose reels. Since the fire was in the ceiling, the fire fighting equipment became useless.

Prof. Nawangwe said he got a report from the Inspector General of Government (IGG) saying there was CCTV footage from the cameras but the images were unclear. After the interview, Prof. Nawangwe checked the information he had on functionality of the CCTV cameras in the Main Building and informed the Lead Investigator that the CCTV cameras were non-functional at the time of the fire.

2.2.27 Interview with Electricians, Mr. Kato Lazarus, Mr. Paul Sebakaki and Mr. Babumba

Joseph

The three electricians, Mr. Kato Lazarus, Mr. Paul Sebakakyi and Mr. Babumba Joseph were interviewed jointly by the investigation team to gain a better understanding of the state of electrical installations in the building. The electricians said they did not remember most of the repairs read from the logs of the Estates and Works Department. The investigation team asked the electricians why Bajaj lighting fittings were initially installed to replace the Philips magnetic ballast fittings, and then in 2019 the Bajaj fittings were replaced. Mr. Paul Sebakakyi said the Bajaj lighting fittings had electronic ballasts. Mr. Babumba said he remembered the Bajaj lighting fittings being replaced in some offices. He said the problem with the Bajaj lighting fittings is that they were not 4 feet but smaller. The electricians said that some lighting fittings were mounted on the surface of the timber ceiling and others were suspended from the ceiling. This was because some ceilings were low and lights could not be suspended from them, hence the lighting fittings were ceiling mounted. The users also preferred lighting from the fittings previously installed. They also had no tubes and no spares for the Bajaj fittings. The investigation team wanted to know what the electricians would do if the light that was being replaced was not the same size as the one replacing it. The electricians said that the lighting fitting would be replaced and the suspension wire would be left hanging. If possible, the lighting fitting would be ceiling mounted.

2.3 Review of Drawings and Documents

The Estates and Works Department of Makerere University provided drawings of the Main Building and documents pertaining to repairs and maintenance carried out in the Main Building. This section of the report presents the review of the documents and drawings.

2.3.1 Review of Drawings

Architectural drawings submitted to the investigation team are shown in Table 3. The drawings were not adequate as the cross-sections and details were not provided, to understand the structural design and materials used. The drawings were dated October 1972 for a building that was built 79 years ago. These were not the first drawings of the Main Building.

Table 3: Drawings Reviewed by Investigation Team

	Drawing No.	Drawing Title	Date Drawing Prepared
1	E0528/MU/72	Administrative Block Makerere University Kampala	October 1972
2	Not indicated	Ground Floor Plan	March 2015
3	Not indicated	First Floor Plan	March 2015
4	Not indicated	Second Floor Plan	March 2015
5	M.U.605/1975	Working Drawing	13/01/1975
6	90012/01	Extent of Alterations	July 1990
7	EWD 91/04/01	Roof Detail	November 1991

The drawings however aided the investigation team in reconstruction of the floor in the northern wing of the Main Building. The first floor plan aided the team in mapping out the electrical loads in the offices. The drawings also helped the team to map the locations and occupancy of offices on the first and second floor of the northern wing. This was useful in analysing the electrical problems in the building and possible causes of the fire related to electricity. The drawings also aided the investigation team, in particular, the Government Analytic Laboratory in reconstruction of the movement of the fire and determination of the origin of the fire.

2.3.2 Review of Documents from Estates and Works Department

The Estates and Works Department of Makerere University provided documents to the investigation team on the status of the Main Building and requests for repairs to the Main Building. The findings from a review of the documents are given below.

- a) There were leakages in the roof of the Main Building and a contractor was engaged to repair the roof.
- b) ~~The ceiling on~~ the second floor of building was crumbling.

- c) The Closed Circuit Television cameras of the Main Building were non-functional.
- d) There was a report prepared by the Director Estates and Works that warned of the following:
 - i) worn out electrical cables,
 - ii) funding was only adequate for reactive maintenance and not emergency maintenance,
 - iii) inadequate staffing in the Estates and Works Department,
 - iv) lack of tools in the Estates and Works Department,
 - v) capital needs as 80% of the infrastructure at Makerere University was in bad condition,
 - vi) revamping of the electrical installations in the University requires UGX 24.5 billion and
 - vii) UGX 550 million is required for rehabilitation of electrical and mechanical installations in the Main Building.

2.3.3 Review of Documents from Umeme Ltd.

The investigation team wanted to check that the fire was not caused by over voltage from the mains power supply, that would pass to much current in the wires and burn the wires and items in the vicinity of burning wires. The team therefore requested for data from Umeme Ltd. from the bulk meters at Makerere University. Details of the meters from which the data was obtained are shown in Table 4.

Table 4: Details of Bulk Meters for Power Supply to Makerere University

	Account Name	District	Feeder	Account No.	Meter No.
1	Makerere University 1 (East Gate)	Wandegeya	Makerere 11 kV Feeder from Kampala North Sub-station	200853436	014262515761
2	Makerere University 2 (Education)	Wandegeya	Wandegeya 11 kV Feeder from Kampala North Sub-station	200853444	014262515902

Voltage fluctuation on both meters was checked from the data obtained. Table 5 shows data from Makerere University 1 bulk supply meter at the Makerere University East Gate.

Table 5: Voltage on Makerere University 1 Bulk Supply Meter at Makerere University East Gate

Date and Time	A Phase Voltage (V)	C Phase Voltage (V)
2020-09-20 00:45	11130	11040
2020-09-20 00:30	11070	10980
2020-09-20 00:15	11010	10920
2020-09-20 00:00	11070	10970
2020-09-19 23:45	11210	11110
2020-09-19 23:30	11190	11090
2020-09-19 23:15	11060	10960
2020-09-19 23:00	11060	10970
2020-09-19 22:45	11080	10990
2020-09-19 22:30	11130	11050
2020-09-19 22:15	11040	10960
2020-09-19 22:00	11080	11010
2020-09-19 21:45	11100	11020
2020-09-19 21:30	11100	11020
2020-09-19 21:15	11170	11090
2020-09-19 21:00	11140	11050
2020-09-19 20:45	11100	11010
2020-09-19 20:30	11070	10980
2020-09-19 20:15	11020	10940
2020-09-19 20:00	11130	11050
2020-09-19 19:45	11070	10980
2020-09-19 19:30	10920	10840
2020-09-19 19:15	11070	10980

AZ

NR

Bro

Q

A.G
K

Date and Time	A Phase Voltage (V)	C Phase Voltage (V)
2020-09-19 19:00	11130	11030
2020-09-19 18:45	11150	11060
2020-09-19 18:30	11100	11020
2020-09-19 18:15	11190	11090
2020-09-19 18:00	11140	11050
2020-09-19 17:45	10980	10900
2020-09-19 17:30	10960	10880
2020-09-19 17:15	11130	11040
2020-09-19 17:00	11170	11100

Figure 14 shows voltage fluctuation on the power supply through Makerere University 1 bulk supply meter at the East Gate.

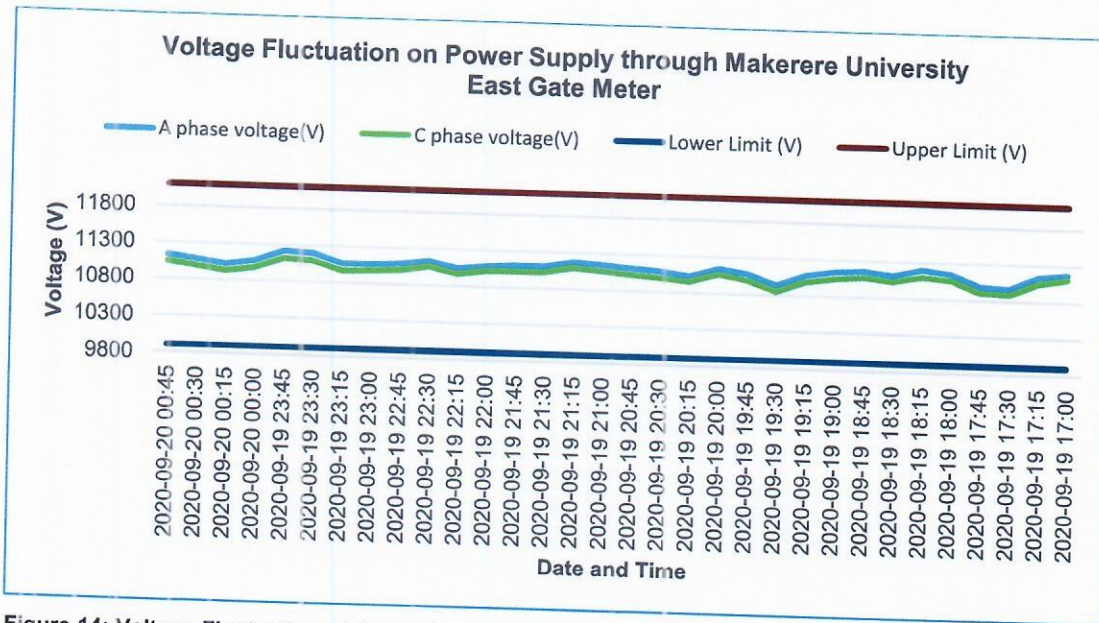


Figure 14: Voltage Fluctuation of Power Supply through Makerere University 1 Bulk Supply Meter at East Gate

Table 6 shows data from Makerere University 2 bulk supply meter at the Makerere University Education.

Table 6: Voltage on Makerere University 2 Bulk Supply Meter at Makerere University Education

Date	A Phase Voltage (V)	C Phase Voltage (V)
2020-09-20 00:45	11010	11040
2020-09-20 00:30	11000	11030
2020-09-20 00:15	10920	10950
2020-09-20 00:00	10870	10890
2020-09-19 23:45	11130	11150
2020-09-19 23:30	11070	11100
2020-09-19 23:15	10950	10990
2020-09-19 23:00	10950	10990
2020-09-19 22:45	10990	11030
2020-09-19 22:30	11010	11050

A2

nrk

Bm



A-G

Date	A Phase Voltage (V)	C Phase Voltage (V)
2020-09-19 22:15	11020	11080
2020-09-19 22:00	10930	10980
2020-09-19 21:45	10990	11040
2020-09-19 21:30	11000	11040
2020-09-19 21:15	11120	11160
2020-09-19 21:00	11040	11090
2020-09-19 20:45	11000	11050
2020-09-19 20:30	10980	11040
2020-09-19 20:15	10910	10960
2020-09-19 20:00	11150	11190
2020-09-19 19:45	10950	10990
2020-09-19 19:30	10840	10890
2020-09-19 19:15	10920	10950
2020-09-19 19:00	10970	11000
2020-09-19 18:45	11110	11140
2020-09-19 18:30	10970	11000
2020-09-19 18:15	11020	11030
2020-09-19 18:00	10940	10950
2020-09-19 17:45	10770	10790
2020-09-19 17:30	10720	10750
2020-09-19 17:15	10950	10980
2020-09-19 17:00	10930	10960

Figure 15 shows voltage fluctuation on the power supply through Makerere University 2 bulk supply meter at Education.

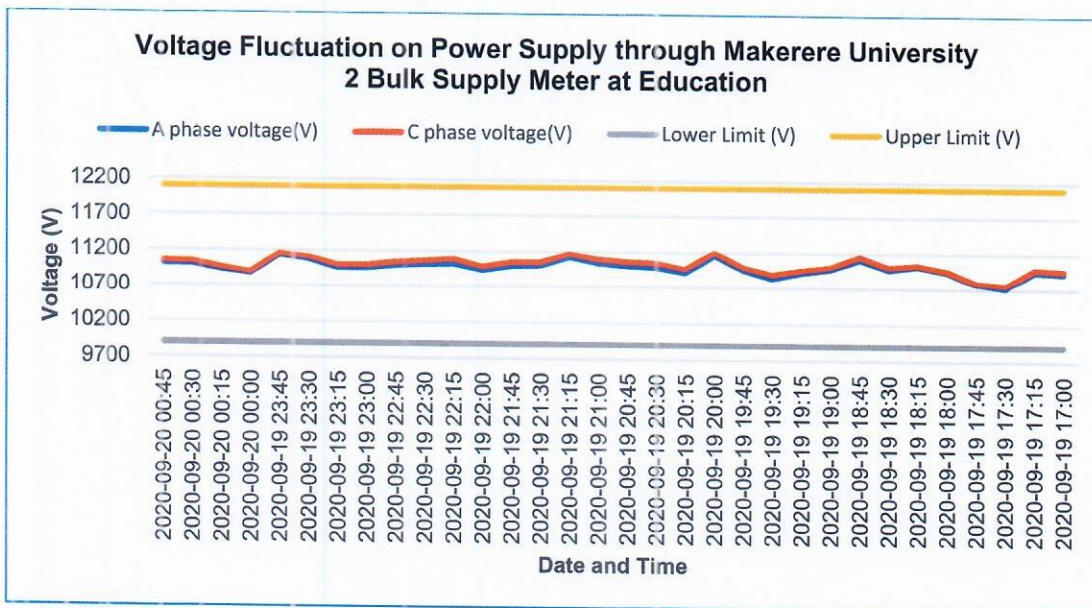


Figure 15: Voltage Fluctuation of Power Supply through Makerere University 1 Bulk Supply Meter at East Gate

AZ

10/12

Bm

Handwritten signature

SOLS

A-G

Section 8.3.1 of the Electricity (Primary Grid Code) Regulations, 2003 states that:

Subject to clause 3.2.1, a licensee shall maintain a nominal voltage level at the point of supply to the consumer's electrical installation in accordance with the following standard nominal voltages-

- (a) 240 V, (plus or minus 6%);
- (b) 415 V, (plus or minus 6%);
- (c) 11 kV, (plus or minus 10%);
- (d) 33 kV, (plus or minus 10%);

The nominal voltage at the secondary of the transformer was maintained within $\pm 10\%$ from 5:00 p.m. on Saturday 19th September 2020 to 12:45 a.m. on Sunday 20th September 2020, at both meters, as shown in Figure 14 and Figure 15.

The fire was therefore not caused by a voltage fluctuation from the mains power supply.

2.4 Review of CCTV Footage

There were 16 CCTV cameras in the Main Building, but these were not backing up footage. In February 2019, there was a lightning strike in the Main Building that destroyed the cameras.

CCTV cameras were installed at the printery, the main library, St. Augustine Chapel and St. Francis Chapel.

The CCTV camera at the printery showed that fire started at 2330 hours on Saturday 19th September 2020.

The CCTV camera at St. Francis Chapel showed smoke coming out of the Main Building at 041 hours on Sunday 20th September 2020.

There was no time stamp on the CCTV camera at St. Augustine Chapel. The camera however showed that lights were on when the fire was raging, but they eventually went off as the fire continued to rage.

CCTV footage showed that the last person to enter the Main Building on Saturday 19th September 2020 was the university security guard. He entered the Main Building at 7:00 p.m. He did not leave the Main Building until the Chief Security Officer knocked on the building to wake him up. At that time the Main Building was burning. This was at 12:48 a.m. on Sunday 20th September 2020.

2.5 Analysis of Findings

This section of the report presents an analysis of information from the interviews carried out, site inspections and samples taken.

2.5.1 Analysis of Burning Pattern and Determination of Origin of Fire

The fire burnt the entire northern wing of the Main Building and spread southwards to the University Secretary's office on the first floor. The fire burnt and collapsed the roof of the entire building, which ignited property in the offices to the second floor, burning down everything in its path. Heat was radiated by wind through the corridor and trunking on the first floor, to the Council Room. Fire spread from the northern wing of the building to the Central Registry, destroying most of the property there.

2.5.1.1 Burning Patterns

Visible or measurable physical effects that remain after a fire define a fire pattern. Indicators such as lines of demarcation (smoke/soot deposition), burn types (low, mid, high), burn quality (dull, clean),

surface penetrations, charring, pours and trailers help forensic scientists trace damage back to the source or origin of fire. Smoke or soot will generally be deposited on a cool surface far from the heat. A clean burn occurs when a flame or intense heating burns off the soot in a localised area. Burning patterns that are typically observed at fire scenes include “V”, “U” and Hourglass patterns. The ‘V’ shape traces damage to a definite confluence whereas the ‘U’ shape leaves a blurred ending from which the point of origin can be deduced. The Hourglass pattern is associated with burning of a pool of ignitable liquid.

2.5.1.2 Determination of Combustion Seat

The soot deposition patterns on the windows of the first floor in the northern wing (see arrows in Figure 16) suggest intense burning happened on this floor. Fire burns upwards implying that flames appear to have been ignited on this floor and spread upwards and southwards rapidly reaching the second floor and roof through a staircase. The staircase through which the fire spread is shown in Figure 17.



Figure 16: Soot Deposition Pattern in Windows on First Floor of Northern Wing of Main Building



Figure 17: Burnt Staircase of First Floor, Northern Main Building

Figure 18 is an illustration of the propagation pattern of the fire at Makerere University Main Building. The origin of the fire is confirmed as an area within the northern wing of the Main Building, i.e. the University Bursar’s office or the Room 315, where his secretaries sit. The fire spread to adjacent offices upwards in a V shape and southwards following ambient wind direction (southwards). The fire moved along the wooden staircase on the second floor of the building. Figure 18 shows that the roof dropped burning debris which introduced fires in the other offices of the second floor away from the northern wing of the building.

RN

NZ

bro

[Handwritten signature]

A-U

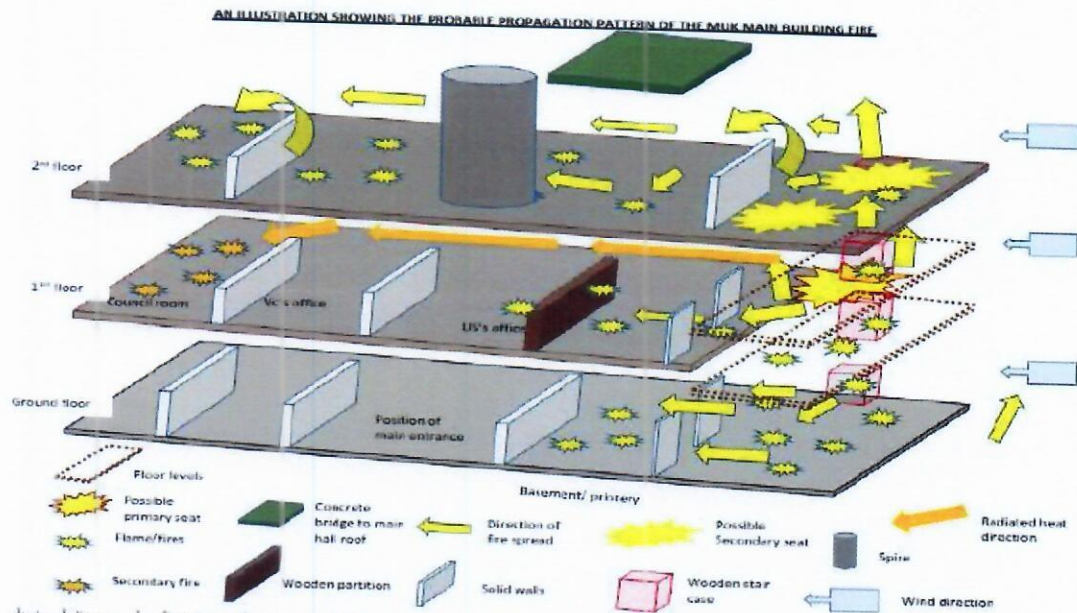


Figure 18: Illustration of Propagation Pattern of Fire at Makerere University Main Building

2.5.1.3 Second Fire in Council Room

The second fire that occurred on Sunday 20th September 2020 was caused by heated trunking. Heat was radiated by wind through the corridor and trunking on the first floor, to the Council Room. Trunking was run from the northern wing to the southern wing on the first floor, at ceiling level. The trunking was heat conducting. The trunking reached a very high temperature resulting in ignition and burning of the Council Room on the first floor of the building. Figure 19 shows exposed wires from the burnt PVC trunking in the corridor of first floor.



Figure 19: Exposed Wires from Burnt PVC Trunking in Corridor of First Floor of Main Building

RN

NR

Bm

[Handwritten signature]

A-7

A-G

2.5.2 Forensics Analysis

The forensics team collected the following from the scene of the fire:

- i) ash samples,
- ii) burnt electrical cabling,
- iii) a fluorescent tube holder,
- iv) burnt electrical kettle,
- v) extension cable remains and
- vi) remains of computers.

Samples of ash were picked randomly from the ground floor in the area beneath the suspected seat of the fire. Tests were carried out in the laboratory for determination of presence of fossil fuel based accelerants. The samples tested negative for fossil fuel markers.

The items picked from the scene were examined in the laboratory.

The burnt electric kettle was picked from the ground floor of the Main Building and showed no evidence of being externally burnt.

Remains of the computers picked from the suspected seat of the fire seat on the ground floor showed evidence of being externally burnt.

There were remains of heavy duty equipment seen at the scene of the fire and therefore no indications of an electrical overload.

The results of analysis of samples picked from the scene and burning pattern analysis suggest no ignitable liquid or explosive material was used to intentionally start the fire. Arson by ignitable liquid or explosive material was not the cause of the fire.

Absence of traces of ignitable liquids or explosive materials (Foreign Fire Accelerants) does not in itself exclude a possibility of arson. Arson using a matchbox or cigarette lighter or a smouldering item cannot be ruled out as the cause of the fire.

2.5.3 Analysis Power Supply and Reticulation in Makerere University Main Building

The power supply and reticulation in the Main Building was reconstructed from interviews with the electricians and inspection of the power room, consumer's units and wiring in the building.

Three phase power is supplied to the Main Building from a feeder pillar near the Faculty of Food Science and Technology. The power enters the Main Building in a power room found in the printery of the Main Building. There is a fuse in the feeder pillar for the power supply to the Main Building. The power goes through three cut out fuses (shown in Figure 20) in the power room, to a busbar (Figure 21).

NTR

DN

R...

A...

SIS A-G

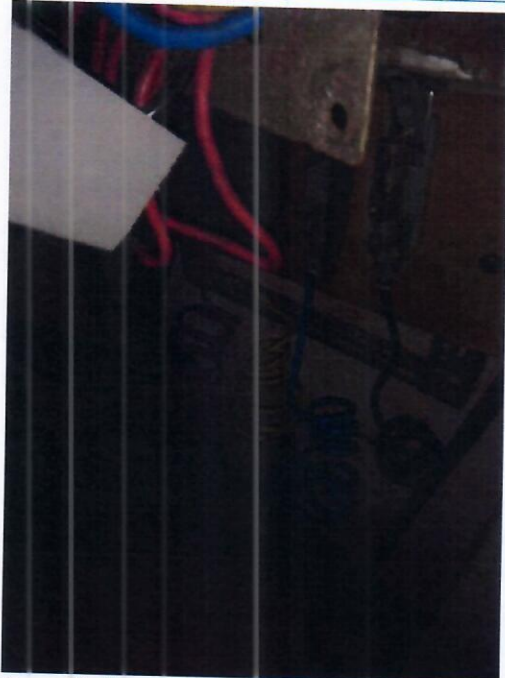


Figure 20: Fuse Cut Outs at Main Incomer of Main Building



Figure 21: Busbar in Power Room of Main Building

Power is tapped from the busbars to each of the three floors and the basement, through isolators (Figure 22), except for power supply to one consumer's unit on the ground floor which taps power through a Main Distribution Board (MDB) (see Figure 23). The Main Distribution Board had circuit breakers. The sizing of the circuit breakers may not have matched the loads on the circuits as the electricians could not tell which circuits were supplied from the MDB.

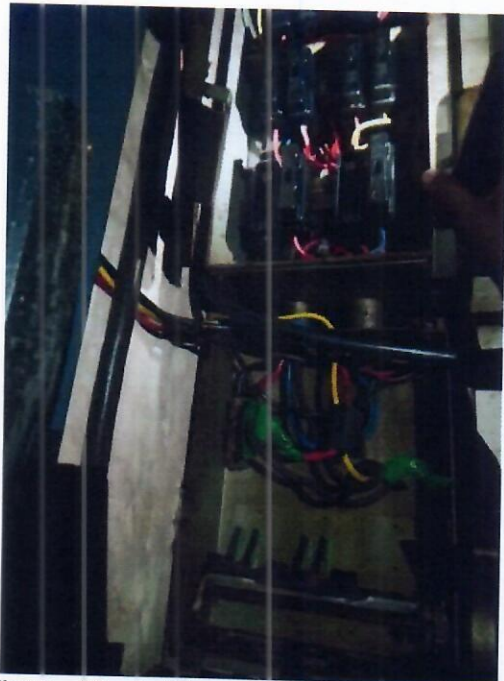


Figure 22: Isolators for Power Supply to Consumer's Units in Basements and Floors of Main Building

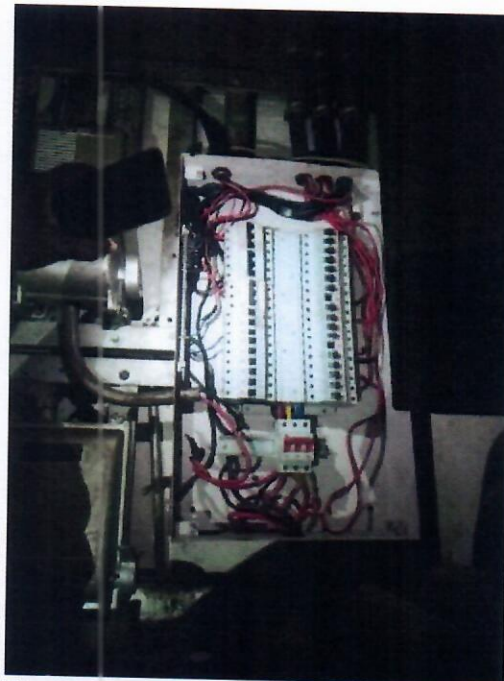


Figure 23: MDB Supplying Power to Consumer's Units on Ground Floor of Main Building

Handwritten signature/initials

AZ

NB

DM

Handwritten signature/initials

A-0

There were six consumer's units on the ground floor of the Main Building. There were two consumer's unit in the duct of the ground floor that supplied power to a section of the ground floor of the northern wing (Figure 24), one supplied power to the sockets and the other supplied power to the lights. These consumer's units did not have circuit breakers but had fuses. It is not certain that the wires of the fuses were sized correctly for the loads on the circuits. This is because the electricians would replace the wires when they got burnt with wires whose cross-sectional area they did not know.

There were three consumer's units in the finance office supplying power to the finance office in the northern wing of the building, and all offices above the finance office up to the second floor of the northern wing of the building. Figure 25 shows the position of the burnt consumer's unit in the finance office in the northern wing of the Main Building. Figure 26 shows the burnt consumer's units of the ground floor of northern wing. Figure 27 shows the position of the second burnt consumer's units on the ground floor of the northern wing. The three consumer's units had circuit breakers.

The sixth consumer's unit is found in the Common Room in the southern wing of the Main Building (Figure 28). The sixth consumer's unit had fuses.

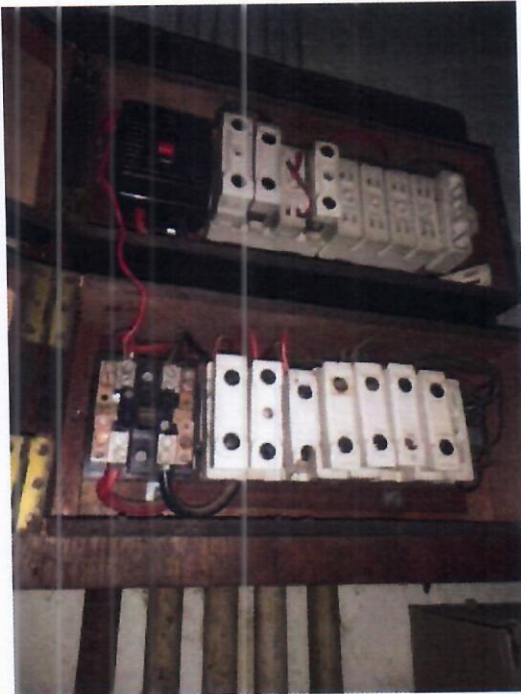


Figure 24: Consumer's Unit in Duct Supplying Power to Section of Ground Floor of Northern Wing of Main Building

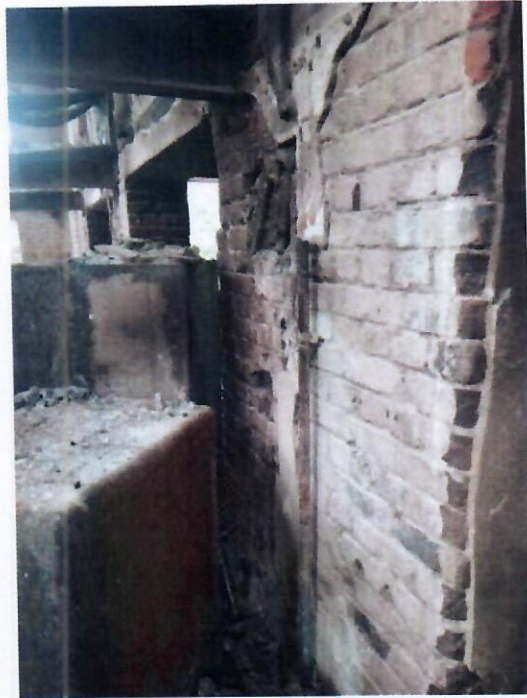


Figure 25: Position of Burnt Consumer's Unit in Finance Office in Northern Wing of Main Building

nr

D

AG

SKD

AG



Figure 26: Burnt Consumer's Units of Ground Floor of Northern Wing of Main Building



Figure 27: Position of Second Burnt Consumer's Units on Ground Floor of Northern Wing of Main Building



Figure 28: Consumer's Unit in Common Room on Ground Floor, Southern Wing of Main Building

NR

A-G

[Handwritten signature]

SKS

There are two consumer's units on the first floor of the Main Building supplying power to the first floor of the Main Building. One supplies power to lights on the first floor (Figure 29) and the second supplies power to sockets on the first floor (Figure 30).

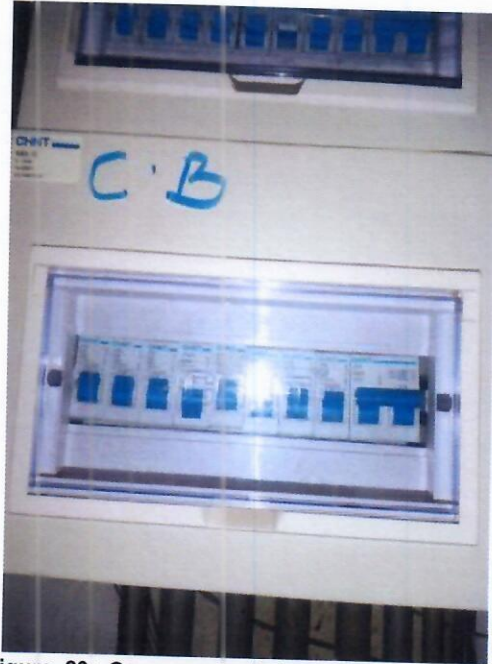


Figure 29: Consumer's Unit for Lights on First Floor of Main Building



Figure 30: Consumer's Unit for Sockets on First Floor of Main Building

There were two consumer's units on the second floor of the Main Building supplying power to the second floor of the Main Building. One was supplying power to sockets and the second was supplying power to lights. Figure 31 shows the position of the burnt consumer's units for lights and sockets on second floor of the Main Building. The consumer's units on the second floor had fuses and not circuit breakers.



Figure 31: Position of Burnt Consumer's Units for Lights and Sockets on Second Floor of Main Building

NR

RM

to

A-C

There are two consumer's units in the ceiling above the stage of the main hall, shown in Figure 32 and Figure 33. It was not clear how these consumer's units were supplied with power. These consumer's units had fuses, not circuit breakers.



Figure 32: Consumer's Unit 1 in Ceiling of Stage of Main Hall



Figure 33: Consumer's Unit 2 in Ceiling of Stage of Main Hall

The sketch of the power supply schematic is provided in Annex 3 of this report.

2.5.4 Tests on Power Supply and Reticulation in Makerere University Main Building

The investigation team requested for the tests in Table 7 below to be carried out by Uganda National Bureau of Standards (UNBS).

Table 7: Tests Requested for from UNBS

	Items to be Tested	Tests to be Carried Out
1	20 No. fluorescent lamps and their respective lamp holders.	<ol style="list-style-type: none"> 1. Determine type of ballast (magnetic or electronic) 2. Determine whether there is a loose contact between the lamp holder and the lamp pins. 3. Determine the material the lamp holders are made of, especially at the point of contact of the lamp pins. 4. Physically examine the lamp holders and lamp pins to determine whether they have been degraded by arcing at the point of contact with the lamp pins. 5. Power the lamp for 27 hours and measure the temperature of the ballast. Report on whether the pitch in the ballast, gave off an odour, liquefied and dripped from the ballast.
2	Consumer's Unit on Ground floor found in Senior Common Room	<ol style="list-style-type: none"> 1. Determine whether the circuit breakers will trip when there is a short circuit. Measure the time it takes for the circuit breakers to trip.

NR

AS

A.O

	Items to be Tested	Tests to be Carried Out
3	Fuse wire in fuse of circuit that was powering the Consumer's Units in Finance Section	<ol style="list-style-type: none"> 1. Determine the cross-sectional area of the wire in the fuse holder. 2. Determine the material of the wire in the fuse holder. 3. Determine the time it takes the wire in the fuse holder to burn when there is a short circuit.
4	Cable taking power to Consumer's Unit in Finance Section	<ol style="list-style-type: none"> 1. Determine the cross-sectional area of the conductors. 2. Determine the type of cable, i.e. number of cores, insulation material, conductor material and armouring (if armoured). 3. Describe the condition of the cable, i.e. degradation or burning of its insulation. 4. Determine conductor resistance. 5. Determine insulating material thickness. 6. Carry out voltage tests on the cable. 7. Determine insulation resistance of the cable.

Uganda National Bureau of Standards said they did not have the capacity to carry out the tests, except for the ones below.

1. Determine the cross-sectional area of the conductors.
2. Determine the type of cable, i.e. number of cores, insulation material, conductor material and armouring (if armoured).
3. Describe the condition of the cable, i.e. degradation or burning of its insulation.

The response from UNBS is shown in Annex 4 of this report.



NR

DM

RN



A-G

SRS

1-7

3.0 Cause of Fire

The investigation team deliberated on the findings from the interviews and analysis carried out. Deliberations were on the origin of the fire and the cause of the fire.

3.1 Origin of the Fire

The team deliberated on whether the fire started from the first floor or the second floor. The scientific findings show that the fire started on the first floor of the Main Building in the University Bursar's office or his secretaries' office. Eye witness accounts point to the fire starting on the second floor of the building. This account was presented by the Chief Security Officer, the police officer, the VC and the Personal Assistant to the VC.

The scientific theory of the origin of the fire was maintained because according to this, the fire was burning for some time on the first floor and there was complete combustion hence less smoke is seen on the first floor windows than the second floor windows. The CCTV cameras showed fire coming out of the second floor window at 11:38 p.m. on Saturday 19th September 2020, by this time the fire had been burning on the first floor.

It was suggested that further investigations should be carried out on the origin of the fire using software that will reconstruct the spread of the fire, from the materials in the building and the composition of the building. The software below is required:

- i) Pyrosim – Fire and Smoke
- ii) Pathfinder Evacuation
- iii) Petra Sim – Subsurface Flow

The National Building Review Board is looking into purchase of the software.

3.2 Cause of the Fire

The team deliberated on the cause of the fire. Three possible causes of fire were considered:

- i) arson by using diesel, petrol or kerosene,
- ii) arson by lighting a match in a room on the first floor of the Main Building or leaving a candle on and allowing it to burn or
- iii) fire due to an electrical problem in the building.

3.2.1 Arson by Using Diesel, Petrol or Kerosene

Analysis carried out by the forensics team did not find traces of conventional fuel accelerants in the ash. A conclusion was arrived at that the fire could not have been caused by conventional fuel accelerants, i.e. diesel, petrol or kerosene. Arson using diesel, petrol or kerosene was therefore ruled out.

3.2.2 Arson by Lighting Match in Room on First Floor of Main Building or Leaving Candle Burning

CCTV footage revealed that the last person to enter the Main Building on Saturday 19th September 2020, was the university security guard. He normally locks himself in the building at night. He entered the building at 7:00 p.m. He was woken up by the Chief Security Officer at 12:48 a.m. when the building was on fire.

The people below accessed the Main Building on Saturday 19th December 2020, from investigations carried out by the Criminal Investigations Department (CID).

- i) Ms. Rita Namisango, the PRO.
- ii) Mr. Emmy Ampeire Emmy, Custodian Main Building. He went to his office in the Main Building at 9:00 a.m., picked medicine and returned home.
- iii) Mr. Asaba Charles, the Assistant Custodian Main Building. He went to his office in the Main Building at 8:00 a.m. and left at 6:00 p.m.

N/R

Bm

RN

AD

A-G

A7

- iv) Mr. Luboowa Ssebina Gyaviira, Manager Accounts & Reporting. He was in his office in the Main Building between 8:00 a.m. and 9:00 a.m. reading through the Final Accounts Report 2019/2020. He was preparing for a meeting with auditors on Monday 21st September 2020. He left the building between 1:00 p.m. and 2:00 p.m.
- v) Ms. Wandera Clare, Assistant Bursar/Accountant, went to her office in the Main Building at 11:30 a.m. to make a report on university assets for the Board of Survey 2019/2020, which she was to submit to the Ministry of Finance, Planning and Economic Development. She left her office at 5:30 p.m.
- vi) Mr. Bukenya Vincent, an accountant in the Finance Department went to the Main Building at 2:30 p.m. to pick his 5 litre jerrycan of banana juice.
- vii) Mr. Lebo Julius, the Principal Human Resource Officer went to his office in the Main Building to charge his phone at 3:00 p.m. and left the office at 5:00 p.m.
- viii) Ms. Nakimuli Miriam, an office messenger.

If a fire was started by lighting a match or leaving a candle on, i) it could not have been started by the last person who entered the Main Building, the university security guard, since he could not have started a fire and gone to sleep in the same building, or ii) another person, since the fire would have been noticed by the security guard. If the latter was the case, the fire would have had to be started before 7:00 p.m. on Saturday 19th September 2020. This is because the last person entered the building at 7:00 p.m. There was no other person in the building after 7:00 p.m. CCTV footage does not show anyone leaving the building after 7:00 p.m. and neither did the Chief Security Officer find another person in the building when he woke up the university security guard.

The possibility of the fire being started by someone in the building who found an alternative exit from the building cannot be entirely ruled out, since the CCTV cameras in the Main Building were non-functional.

3.2.3 Fire Due to Electrical Problem in Main Building

The investigation team deliberated on the cause of fire as an electrical problem in the Main Building. Four possible causes were discussed:

- a) sparks,
- b) overheating of wires,
- c) devices failing,
- d) old wiring, and
- e) lighting fittings.

The electrical causes were examined critically, and the likelihood of their occurrence was rated on a scale of 1 to 10, based on findings on the state of electrical installations, records of repairs carried out, and interviews carried out. Since it was scientifically established that the fire originated on the first floor in the University Bursar's office or his secretaries' office, all occupants of this section of the first floor who had been working in the week preceding the fire were interviewed. The staff below were interviewed:

- i) Mr. Everest Beinomugisha, University Bursar,
- ii) Ms. Consolata Komugisha, Accountant,
- iii) Ms. Naome Kiconco Ocen, Legal Officer,
- iv) Ms. Naome Namuganga Namulasa, Administrative Secretary,
- v) Mr. Serunjonji Abdul Majid, Principal Assistant Bursar Salaries,
- vi) Ms. Nakayofu Annette, Senior Administrative Assistant for University Secretary,
- vii) Mr. Blaise Turyasingura, Administrative Assistant Finance,
- viii) Ms. Angella Mbirizi, Messenger, University Secretary's Office and
- ix) Mr. Kato Godfrey, Accountant Salaries

Questions were asked on the types, numbers and condition of electric equipment in their offices. A sketch of the electric equipment in these offices was prepared and is shown in Annex 5 of the report. Questions were also asked on the condition of electrical wiring in their offices and the electrical problems they faced in their office. Electrical equipment found in offices in the northern wing of the first floor of the Main Building are shown in Table 8.

Bm

RN

AA

A-G

AZ

WZ

Bm

RN

A

A-G

INVESTIGATION REPORT INTO CAUSE OF FIRE AT MAKERERE UNIVERSITY MAIN BUILDING
Table 8: Electrical Equipment in Offices in Northern Wing of First Floor of Main Building

Office	Occupant	Electrical Loads												
		Computers	Laptop	Small Printers	Photocopiers	Scanners	1200 mm single fluorescent lighting fitting	1200 mm twin fluorescent lighting fitting	4 x 600 mm fluorescent lighting fittings	Kettle	Refrigerator	Water Dispenser	Wall Fan	Stand Fan
Secretary's Office	Ms. Annette Nakayofu (Senior Administrative Assistant for University Secretary) Ms. Angella Mabinizi (Messenger, University Secretary's Office)	2	2	2	2	2	2	2	2	2	2	2	2	2
University Secretary	Mr. Yusuf Kiranda (Ag. University Secretary)	1	1	1	1	-	-	2	-	-	-	-	-	1
Tea Room	-	-	-	-	-	-	-	-	1	1	-	-	-	-
Room 312 (Wages Office)	Secretary to Deputy University Secretary	1	-	1	-	-	1	-	-	-	-	-	-	-
Room 312 (Wages Office)	Ms. Consolata Komugisha (Accountant, Office of University Bursar)	1	-	1	-	-	-	-	-	-	-	-	1	-
Room 312 (Wages Office)	Unoccupied	1	-	1	-	1	1	-	-	-	-	-	-	1
Room 312 (Wages Office)	Ms. Naome Kiconco Ocen (Legal Officer)	1	-	-	-	-	1	-	-	-	-	-	-	-
Corridor		-	-	-	-	-	-	2	-	-	-	-	-	-
Manager Revenue	Unoccupied	-	-	-	-	-	1	-	-	-	-	-	1	-
Room 313	Mr. Blaise Turyasingura (Administrative Assistant Finance) and Ms. Betty Awe	2	-	1	-	-	1	-	-	-	-	-	-	-
Circulation Area		-	-	-	-	-	2	-	-	-	-	-	-	-

INVESTIGATION REPORT INTO CAUSE OF FIRE AT MAKERERE UNIVERSITY MAIN BUILDING



Office	Occupant	Electrical Loads													
		Computers	Laptop	Small Printers	Photocopiers	Scanners	1200 mm single fluorescent lighting fitting	1200 mm twin fluorescent lighting fitting	4 x 600 mm fluorescent lighting fittings	Kettle	Refrigerator	Water Dispenser	Wall Fan	Stand Fan	
Room 314 (Salaries Office)	Ms. Josephine Kyaterera (Messenger), Mr. Kato Godfrey (Accountant, Salaries), Ms. Ayoko Joyce and Mr. Jonathan Buyi	3	-	1	-	-	5	-	1	-	-	-	-	-	-
In-charge Salaries	Mr. Serunjonji Majid (Principal Assistant Bursar, Salaries)	2	1	1	-	-	1	-	-	-	-	-	-	1	-
Bursar's Office		1	-	1	-	-	-	2	-	-	-	-	-	-	1
Room 315	Ms. Kamoga Gladys (Secretary 1), Ms. Ruth Nakidali (Secretary 2) and Ms. Naome Namuganga Namulasa (Administrative Secretary)	3	-	1	-	1	-	3	-	-	-	-	-	-	1
Staircase	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
Well	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
Total Loads		11	1	5	0	1	11	5	0	1	0	1	1	3	0

AZ

NR

Bm

RN

[Signature]

SKS

A-G

The investigation team considered information given below obtained from the interviews carried out, in determination of the mostly likely cause of the electrical fire in the Main Building.

- i) There were lights on in some offices in the northern wing of the Main Building as the fire was raging. This implies that circuit breakers did not trip and neither did fuses burn as a way of protecting the building from an electric fire. In addition, power to the Main Building was switched off at the feeder pillar at around 1:35 a.m. up to which time there were some lights on in the northern wing of the Main Building. This information was obtained from a picture on Mr. Gordon Mulangira's phone.
- ii) Lights in the Main Building were suspended and not surface mounted, from the account given by the electrician, Mr. Babumba Joseph. This eliminates the cause of fire as arcing of the contacts of the lamps and lamp holders, and subsequent burning of flammable material in the vicinity of the lamp.
- iii) The University Secretary's office and the salaries/wages office are eliminated as the origins of the fire as the Chief Security Officer, Makerere University was able to access the University Secretary's office at 5:00 a.m. on Sunday 20th September 2020, and also noted that at the time he went to the first floor, the salaries office, next to the University Secretary's was not on fire.
- iv) There were instances of lights flickering in the Main Building. Flickering lights imply that the ballast is faulty. If the ballast is faulty it may attain very high temperatures when the light is left on and the liquid in the ballast can melt, fall on a combustible material and burn. Ms. Naome Namuganga Namulasa, the Administrative Secretary who sits next to the University Bursar's office said two lights in her office blew and were replaced. She said the lights were flickering before they were replaced. Ms. Nakayofu Annette, the Senior Administrative Assistant of the University Secretary said that at times the fluorescent lamps in her office would flicker. Ms. Rita Namisango the PRO said that on a weekly basis power would flicker and go off in the whole building, for about 5 minutes. The origin of the fire was zeroed down to the University Bursar's office and Room 315 occupied by Ms. Naome Namuganga Namulasa, the Administrative Secretary, Ms. Kamoga Gladys, a secretary and Ms. Ruth Nakidali, a secretary. A faulty ballast is a highly likely cause of the electric fire.

a) Sparks

Sparks can be caused by short circuits in exposed live wires which have been eaten by rats, bats or lizards. There were instances of rats in the Main Building as picked up from the interviews held. Fumigation was done and there are records from the Estates and Works Department showing that fumigation was done. There were however lizards in the Main Building which can eat wires and cause a short circuit. On a scale of 1 to 10, the likelihood of sparks from short circuits in exposed wiring causing the fire is 2.

The lack of proper maintenance of electrical installations in the Main Building meant that exposed live wires in the Main Building could not be detected.

b) Overheating of Wires

The continuous haphazard modification of electrical installations, as was the case in the Main Building, without due attention to the original design, contributes to an overload in the wires. Wires can overheat because they are overloaded. The wire will heat up to a point where it will burn. This will burn combustible material next to the burning wire.

In particular, Ms. Naome Namuganga Namulasa, the Administrative Secretary in the University Bursar's office, who occupies Room 315, one of the offices where the fire could have originated, said she had four extension cables in her office. The refrigerator, kettle, computers and water dispenser were powered through extension cables. Powering kettles and refrigerators from extension cables can cause overloading of the extension cables and eventually burning of the extension cable. This does not happen instantly, but over time. The kettle powered from the extension could have over time heated the cable of a lower current rating than what is required to power a kettle. On a scale of 1 to 10, the likelihood of overheating of wires in extension cables due to overloading, and causing a fire is 5.

c) Devices Failing

The University Bursar's office and Room 315 had UPSs, computers and printers. These devices have internal power supplies which can fail and burst. The devices most likely to burst from a failure of the internal power supply are laptops. There were however no laptops in the University Bursar's office or in

AZ *MR* *BR* *RN* *AD* *A-C*

Room 315. On a scale of 1 to 10, the likelihood of the fire being caused by the internal power supply of a computer, UPS or printer in the University Bursar's office or Room 315 bursting, is 2.

d) Old Wiring

Insulation of old wires degenerates and becomes brittle. The live and neutral of the wires can then touch, cause a spark that will ignite a fire if there is combustible material nearby. The wiring in the Main Building was more than 30 years old and would ordinary be due for replacement. The Director Estates and Works had warned the University about the need to revamp wiring in the Main Building. There were no records to show that wiring on the first floor in the University Bursar's office and Room 315 had been replaced. In his interview Mr. Babumba said that trunking had been installed in the offices and cables were run from the existing sockets through the trunking. On a scale of 1 to 10, the likelihood that the fire was caused by old wiring in the University Bursar's office or Room 315 is 6.

e) Lighting Fittings

Fluorescent lighting fittings can cause a fire in the ways below.

- i) A faulty ballast in a fluorescent lamp can overheat and burn combustible material near it.
- ii) The ballast can attain such a high temperature that the liquid in it melts and falls onto combustible material below the lamp, causing a fire.
- iii) Arcing from the contact of the lamp pins and lamp holder can start a fire if there is combustible material near it.
- iv) Poor cable joints on replacing a light fitting can cause sparking and start a fire if there is combustible material in the vicinity of the cable joint.

The fluorescent lights in the University Bursar's office and those in Room 315 were not ceiling mounted but suspended from the ceiling. Poor cable jointing and overheating of a faulty ballast that subsequently burn combustible material near the lamp could not have been the cause of the fire. Overheating of a ballast, and melting of the liquid in the ballast onto combustible material was likely in these two offices. There were instances of lights flickering in the building which is a sign of a faulty ballast. On a scale of 1 to 10, the likelihood that the fire was caused by a fluorescent lamp in the University Bursar's office or Room 315 is 5.

3.3 Inadequacies in Operations in Main Building and Failures that Resulted in Fire

Inadequacies in operations in the Main Building and failures that resulted in the fire, are presented in Table 9. This is based on the analysis carried out and deliberations of the investigation team.

Table 9: Inadequacies in Operations in Main Building and Failures that Resulted in Fire

What Was Lacking	What Went Wrong	Officer/Entity Responsible
Property qualified and professional electricians to carry out proper maintenance and repair of electrical installations in the Main Building.	<ul style="list-style-type: none"> • Haphazard work on electrical installations in the Main Building. • There was no power supply and reticulation schematic to guide the electricians in repair and maintenance of electrical installations in the Main Building. 	<p>Director Estates and Works</p> <p>The Director Estates and Works should have ensured the electricians obtained installation permits issued by the Electricity Regulatory Authority (ERA). The process of acquiring the permit is rigorous resulting in permit holders that are qualified to carry out repairs and maintenance of electrical installations.</p> <p>The Director Estates and Works should also have ensured that the electricians conduct, in repair of electrical installations is professional and that their work is properly supervised.</p>
Supervision of electricians in carrying out repair of electrical installations.	<ul style="list-style-type: none"> • The electricians had no proper knowledge of the power supply and reticulation of the Main Building. There was no drawing on power supply and reticulation in the Main Building. This resulted in haphazard work on 	<p>Director Estates and Works</p> <p>Director Human Resources</p> <p>The Director Estates and Works should have ensured that the position of Electrical</p>

Bro

[Signature]

A-G

INVESTIGATION REPORT INTO CAUSE OF FIRE AT MAKERERE UNIVERSITY MAIN BUILDING

What Was Lacking	What Went Wrong	Officer/Entity Responsible
	<p>electrical installations in the Main Building.</p>	<p>Engineer in the department is filled, since the position was advertised.</p> <p>The Director Human Resources should have followed through with the recruitment process to ensure that the position of electrical engineer was filled.</p>
<p>Functional maintenance (preventive and reactive) system for electrical installations in the Main Building.</p>	<ul style="list-style-type: none"> • The Estates and Works Department did not identify and repair faulty wiring in the Main Building. • There was insufficient data and information to inform corrective action or request for funds for electrical installations in the Main Building. 	<p>Director Estates and Works</p> <p>The Director Estates and Works did not institute a preventive maintenance plan for the Main Building. She stated that the maintenance funds from the Government were inadequate for the university's needs. She however did not institute an inspection of the Main Building, and documentation of an annual preventive maintenance plan, that would have been implemented when funds were available. Such an inspection would have identified and documented problem areas in the Main Building, and would have been used to lobby for funds for maintenance.</p>
<p>There was no fire detection system in the Main Building, in contravention of Section 117, 122 - 128 of the National Building (Standards for Mechanical Installations in Buildings) Code, 2019</p>	<ul style="list-style-type: none"> • The fire spread to other parts of the Main Building. • A secondary fire ignited in the Council Room. 	<p>Vice Chancellor Makerere University</p> <p>The Vice Chancellor should have ensured the Main Building has a fire detection system as required by Section 117, 122 - 128 of the National Building (Standards for Mechanical Installations in Buildings) Code, 2019. He should have considered recommendations made on funding for capital and maintenance needs, by the Estates and Works Department, in a report on Makerere University Main Campus Facilities Capital and Maintenance Needs, submitted in November 2019, to find ways to finance installation of an adequate fire detection system for the Main Building.</p>
<p>There was an inadequate fire suppression system in the Main Building, in contravention of Section 129 - 133 of the National Building (Standards for Mechanical Installations in Buildings) Code, 2019</p>	<ul style="list-style-type: none"> • The fire spread to other parts of the Main Building. • A secondary fire ignited in the Council Room. 	<p>Vice Chancellor Makerere University</p> <p>The Vice Chancellor should have ensured the Main Building has a fire suppression system as required by Section 117, 122 - 128 of the National Building (Standards for Mechanical Installations in Buildings) Code, 2019. He should have considered recommendations made on funding for capital and maintenance needs, by the Estates and Works Department, in a report on Makerere University Main Campus Facilities Capital and Maintenance Needs, submitted in November 2019, to find ways to finance installation of an adequate fire suppression system for the Main Building.</p>
<p>Fire drills in the Main Building.</p>	<ul style="list-style-type: none"> • The fire suppression system in the Main Building was inadequate for the magnitude of the fire that occurred. • There was no report flagging the need for a fire detection system and a better fire suppression system for the Main Building. Such a report would have been prepared from observations made during fire drills. 	<p>Director Estates and Works</p> <p>The Director Estates and Works should have instituted annual fire drills in the Main Building. The fire drills would have identified the problem areas in the Main Building with regard to fire detection and suppression systems.</p>

4.0 Conclusions and Recommendations

The conclusions below are arrived from the investigations carried out and discussions held.

- 1) The investigation team established that the fire started at around 11:30 p.m. on Saturday 19th September 2020 in the University Bursar's office or Room 315 on the first floor of the Main Building.
- 2) Arson by conventional fuel accelerants, i.e. diesel, petrol or kerosene was ruled out.
- 3) Arson by lighting a match or leaving a smouldering item burning, could not be established or ruled out, because there were no CCTV cameras in the building and the guard was sleeping in the locked building. In addition, there were ongoing labour disputes in the University.
- 4) It is the investigation team's professional opinion that it was an electrical fire. This is because of the inference below.
 - i) The electrical wiring was more than 30 years old and would ordinarily be due for replacement. Reports from the Estates and Works Department recommended overhauling of electrical installations in the Main Building.
 - ii) There was no proper maintenance of the electrical installations in the Main Building, with no preventive maintenance plan.
 - iii) There was continuous haphazard modification of electrical installations in the Main Building without due attention to the original design and the increasing load.
- 5) The fire was visually detected by a police officer. Systems should have been in place to detect and send an alarm to notify people about the fire, as required under Section 60 of the Occupational Health and Safety Act. Safety systems were lacking in the Main Building, which could have prevented spread of the fire.
- 6) The electricians of the Estates and Works Department are not qualified enough to adequately handle repairs and maintenance of electrical installations in the University. In addition, they were unprofessional in handling repairs and maintenance of electrical installations in the Main Building. This was compounded by lack of tools to carry out their work. The electricians were not forthright in their interviews with the investigation team. The information they gave in the interviews could not be corroborated by occupants of the building or the custodian of the Main Building. Neither could the information be corroborated in the documents submitted to the investigation team, by the Estates and Works Department. They did not have a qualified supervisor or manager to oversee electrical installations carried out, and monitor preventive maintenance on electrical installations in the building.
- 7) Power supply and reticulation in the Main Building was not properly documented according to practices and regulations, which made the electricians work difficult. Lack of this documentation also made the investigation of the cause of the fire difficult. There was negligence in documentation of power supply and reticulation in the Main Building, even when modifications were made.
- 8) The Main Building lacked a functional CCTV system which could have aided in detection of the fire sooner, if it was connected to a manned control centre.
- 9) The fire could have been contained by the fire brigade had they come better prepared to fight the fire.
- 10) The fire could also have been contained if the Main Building had fire fighting systems in place. Makerere University Main Building lacked the physical infrastructure, training and preparedness to detect, communicate and fight a fire of any magnitude however small it would have been. There was no operational fire hydrant in the vicinity of the Main Building.

- 11) The University does not have an Occupational Safety and Health (OSH) policy contrary to Section 14 (1) (a), (b) and (c) of the Occupational Safety and Health Act, 2006, herein after referred to as the Act.
- i) The University lacks a designated person in charge of health and safety at the campus, contrary to Section 16 (1) of the Act.
 - ii) The University did not have any known or documented emergency preparedness plan and the Main Building equally lacked an evacuation plan, contrary to Section 15 of the Act.
 - iii) There is one fire hydrant in the University, however it was covered up and known to one individual only. There was no fire alarm or smoke detection system in the Main Building, contrary to Section 58 Of the Act.
 - iv) One fire extinguisher was found at the ground floor inside the enquiries office of the Main Building. This fire extinguisher had expired on 15th September 2020. However there were fire extinguishers in other areas of the Main Building that had been serviced.
 - v) No fire drill had been conducted at the Main Building in the last 10 years according to the Vice Chancellor.
 - vi) Offices were accessible at any time of the day to whoever has keys to their office. Details on record keeping of persons entering or leaving the building could not be found.
 - vii) There is no functional Emergency Exit, as the main entrance also doubles as the exit. The entrances/exits within the main hall are only accessible when the main hall is in operation, however, when not in operation, the main hall is locked and hence cannot be considered for emergency evacuation of the building. This is contrary to Section 26 (1) and 57 (1)-(7) of the Act.
 - viii) The Main Building did not have trained first aiders, contrary to Section 55 (1), (2), (3), (5), (6), (7) and (8) of the Act.
 - ix) There was no accident/incident registry for the Main Building, contrary to Section 112, 113 and 114 of the Act.
 - x) In the interviews held by the investigation team, it was noted that there was very poor communication and information sharing. Some staff members had access to public information which other staff members had no idea about, for example, the presence of fire extinguishers, contrary to Section 25 (a), (b), of the Act.
 - xi) The Main Building lacked a designated meal area. Staff members usually prepare their own tea in their offices, contrary to Section 54 (1) and (2) of the Act.
 - xii) There were no known scheduled preventive maintenance programmes within the building. The earthing was never checked and electrical installations were questionable, for example, use of wires as fuses. This is contrary to Section 13 (2) (a) of the Act.

The recommendations below are made to prevent re-occurrence of a fire in other buildings in Makerere University, and to ensure timely fire detection and management in the event that a fire occurs.

- 1) Electrical installations in old buildings of Makerere University should be revamped. The Government of Uganda should provide funds for this or obtain credit to do this. These funds should be separate from the annual maintenance budget of the Estates and Works Department.
- 2) The annual maintenance budget of the Estates and Works Department should be increased to enable the department to carry out preventive maintenance on buildings in the University. Recommendations on source of funding for maintenance, presented by the Estates and Works Department, in the report on Makerere University Main Campus Facilities Capital and Maintenance Needs, submitted in November 2019, should be taken into consideration. With these funds, the Estates and Works Department should prepare and institute a preventive maintenance plan for all buildings in the University.
- 3) Two electricians with installations permits should be recruited for the Estates and Works Department. These should be holders of an Ordinary Diploma in Electrical Engineering, as a minimum.

- 4) A registered Electrical Engineer should be recruited for the Estates and Works Department, at management level.
- 5) The University should ensure that all CCTV cameras in the buildings are functional. Constant monitoring of the cameras should be done in a central surveillance room. All cameras that break down should be repaired immediately.
- 6) The fire brigade should beef up its capacity to respond to fires, which should include beefing up the fire trucks and personnel, and carrying out training and refresher courses for personnel. The fire brigade should carry out routine inspection and maintenance of the fire trucks.
- 7) A fire fighting truck should be permanently stationed at Makerere University.
- 8) Makerere University and other Government institutions should work with National Water and Sewerage Corporation to open up fire hydrant points for use by the fire brigade.
- 9) It is highly likely that without proper health and safety interventions at the University, another fire can easily break out or be started. It is recommended that the University put in place a proper health and safety system as per the OSH Act.

[Handwritten signature]

AZ

NR


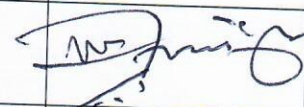


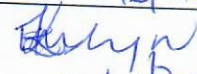






D -

[Handwritten mark]

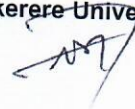
A-G

[Handwritten mark]

5.0 Endorsement by Investigation Team Members

	Name	Designation	Organisation	Signature
1	Eng. Dr. Rachel Namuli	Lead Investigator and Electrical Engineer	NBRB/UIPE	
2	Eng. Hans J. W. B. Mwesigwa	Civil/Structural Engineer	NBRB/UIPE	
3	Eng. Edward Kasule Musisi	Electrical Engineer	NBRB/UIPE	
4	Arch. Jerome Olowo S.	Architect	NBRB	
5	Eng. Eva Katusabe	Principal Specialised Safety Inspector (Civil Engineer)	Ministry of Gender, Labour and Social Development, OSH Department	 16/11/2020
6	D/SP Muhumuza Bernard	CID Commander KMP	Directorate of Criminal Investigations	 16/11/2020
7	D/IP Mbabazi Mary	Head of Forensics KMP/SOCO	Directorate of Forensic Services, Uganda Police Force	 16/11/2020
8	IP Nyanzi Rashid	Head of Forensics KMP North/SOCO	Directorate of Forensic Services, Uganda Police Force	 16/11/20
9	D/CPL Achola Zerida	CID Investigating Officer	Directorate of Criminal Investigations	 16/11/20
10	Stephen S. Kibuuka	Senior Government Analyst, Ballistics	Directorate of Government Analytical Laboratory	 16/11/2020
11	D/ASP Among Gloria	Divisional CID Officer, Wandegaya	Directorate of Criminal Investigations	 16/11/2020

Annex 1: Minutes and Attendance Lists of Task Force on Cause of Fire at Makerere University Main Building



AZ

NR

Bm



A-G
100



ATTENDANCE REGISTRATION FORM

SITE INVESTIGATION INTO THE FIRE OUTBREAK AT MAKERERE UNIVERSITY ON 21ST SEPTEMBER 2020

S/N	NAME	TITLE/ ORGANISATION	CONTACTS	SIGNATURE
01	Edward Kasule MUISI	Engineer/UIPE	0772983784	
02	Mangeni Herbert	Abwer	0753 129410	
03	Rachel Namuli	Engineer/NBRB	0706515635	
04	EVA KATUSABE	NGLSD -OSH Dept	0779651582	
05	Fugy Kang Nubi (usungula)	NBRB	0772431465	









MEMORANDUM FOR INVESTIGATION TEAM AT MAKERE UNIVERSITY, 22/09/1

- 1) Arch. Jerome Oluwo S. 0772960570 NBRB
- 2) Eng. Dr. Rachel Namuli 0706515635 NBRB
- 3- SP ~~Lee Owa~~ ~~Proffey~~ 0772829956 NBRB
4. Eng Hans ~~Sw~~ ~~Wright~~ 0772431465 NBRB
5. SP Muhumuzza Bernard 0772409512 CID
6. DIP Myanzi Rasud 0701510510 Forensic
7. Mutambuze Innocent. MGLSD. 0782193714 MGLSD
8. ~~Dr~~ EBERT CONSTANT OKIRIA 0779388290 Forensic
9. ~~Dr~~ ASP Amuko Peter Hava ~~Dr CID MUK~~ 0788583841 ~~Forensic~~
10. Godfrey Kerfor Dugur
(High-power user Engineer - Umeme) 0782598951
11. Peter Mwendha
Network Engineer (Umeme) 0772612481
12. Katigwi Henry
Safety officer (Umeme). 0782038987
13. OLANYA DAVID
Technical officer (Umeme) 0785115932
14. CHRISTOPHER OPIO 0772841913 UMEME
15. Lt. David Bakayonera 0753420660 ~~Dr~~ ISO
16. DIP Mbatuzi Mary 0782448942 Forensics
17. Stephen Kibwika 0782062709 DGAZ
18. Ssegwanz Simon 0771874074 DGAZ
19. ~~Dr~~ Tibo Proffey 0753378210
20. ~~Dr~~

- 22 - D/ATP AMONG GLORIA Div. CID. D. Wand. ^{11/11} 0772854297.
- 23 D/EPL ACHIKA ZERIDA WAND. 0782 374811/11-11
- 24 D/C NAKABIRI HASIFA WAND. 0777499684.
- 25 D/ATP. KAMUGISHA. LONAH . 0716557405/0772557405.
- 26 MR: Mangeni Herbert Bwera 0753129410/078278265 ^{11/11}










ATTENDANCE REGISTRATION FORM

SITE INVESTIGATION INTO THE FIRE OUTBREAK AT MAKERERE UNIVERSITY ON 23RD SEPTEMBER 2020

S/N	NAME	EMAIL ADDRESS	CONTACTS	SIGNATURE
01	ARCH JEROME S. OLWU	isolowoo@gmail.com	0772 960570	
02	Erasmus Bulb Hwasigwa	musigwa@gmail.com	0772431465	EMU
03	CHRISTOPHER OPIO	christopher.opio@umeme.co.ug	0772841913	
04	Edward Kasule Musisi	e.k.musisi@gmail.com	0772783784	
05	Godfrey Ker-fu Ongur	godfrey.ongur@umeme.co.ug	0782518551	
06	PETER MWONDHA			
07	Kavums. Mohammed	peter.mwondha@umeme.co.ug	0772612081	
08	Katugwa Henry	Mohammed.Kavums@umeme.co.ug	0782801008	
09	MUTEESI JABU Cassimus	henry.katugwa@umeme.co.ug	0782038987	
		mukemol@gmail.com	0705 8 223 21	MHLJ

ATTENDANCE REGISTRATION FORM

SITE INVESTIGATION INTO THE FIRE OUTBREAK AT MAKERERE UNIVERSITY ON 23RD SEPTEMBER 2020

S/N	NAME	EMAIL ADDRESS	CONTACTS	SIGNATURE
10	Stephen S. Kibuka	stykibi@gmail.com	0782262709	
11	Mutambuze Innocent Louis	imutambuze@gmail.com	0782-193714	
12	Mbabwe Mary	mary.mbabwe@gmail.com	0782448942	
13	Nyanzi Rashid	nyanzirashid@gmail.com	0701510510	
14	DBAET CONSTANT OKIRIA	ConstantOkiria@gmail.com	0979381290	
15	SSP SAMBA BRATHI	C50-MUK. Saigaidrehum@mail.com	0724243486	
16	SP Kabeerus Geoffrey	foxgole@gmail.com	07232358	
17	DIASP AMONG GLOPHIA	amonggloria@gmail.com	0772854297	
18	MCPL Dehola Zenda	Was-rava@gmail.com	0782374811	

ATTENDANCE REGISTRATION FORM

SITE INVESTIGATION INTO THE FIRE OUTBREAK AT MAKERERE UNIVERSITY ON 24TH SEPTEMBER 2020.

S/N	NAME	EMAIL ADDRESS	CONTACTS	SIGNATURE
01	ARCH. JEROME S. OLWLO	jsolw@gnant.com	0772760570	
02	Eng. DR. Rachel Namuli	namuli@meassors.com	0706515635	
03	Eng. Hans Sub Malesigile	malesigile@gmail.com	0772481465	
04	Peter Musandha	peter.musandha@umeme.co.ug	0772612481	
05	Henry Katagwa	henry.katagwa@umeme.co.ug	0782035987	
06	CHRISTOPHER OPIO	christopher.opio@umeme.co.ug	0772841913	
07	GADFREY KERUBA ONGUL	gadfrey.ongul@umeme.co.ug	0781598951	
08	Brian Ronald (ISP)	brnrd@meassors.com	0782061921	
10	Tirulagamu Cesar	christulagamu@gmail.com	0782468116	
	Kavuma. Mohammed	Mohammed.kavuma@umeme.co.ug	0782801008	
11	Stephen S. Kavuma	stephen.kavuma@umeme.co.ug	0782072709	
12	NARESHI KESSES	naspinambhi@gmail.com	077497684	







ATTENDANCE REGISTRATION FORM

SITE INVESTIGATION INTO THE FIRE OUTBREAK AT MAKERERE UNIVERSITY ON 24TH SEPTEMBER 2020.

S/N	NAME	EMAIL ADDRESS	CONTACTS	SIGNATURE
13	Tulyama Rashid	nyamiraashid@gmail.com	077110510	[Signature]
14	Achola Zinda Pas	pas.achola@gmail.com	0782-374511	[Signature]
15	SSP Amuko Dora	priscyfriviamukod@gmail.com	0788583541	[Signature]
16	MSFP KAMUGISHA LONAH	Kimugisha.2000@gmail.com	0772551405	[Signature]
17	DIP Mubozzi Mary	Mary.mubozzi@gmail.com	0752448942	[Signature]
18	Ssegawa Simon	simonsegawa@gmail.com	0771894074	[Signature]
19	OBAET CONSTANT OKIRIA	Constantokiria@gmail.com	0799381290	[Signature]
20	MUTEZI JABU	MuteziMJ@gmail.com	0705822321	[Signature]
21	SSP SHUKA SHUKA SHUKA	Shukaibrahim@gmail.com	0774243486	[Signature]
22	AF RAYONDO CAERLENCE		0796999226	[Signature]

ATTENDANCE REGISTRATION FORM

MEETING OF THE TASKFORCE ON THE INVESTIGATION INTO THE FIRE OUTBREAK AT MAKERERE UNIVERSITY HELD ON 25TH SEPTEMBER 2020 AT 10:00AM AT NATIONAL BUILDING REVIEW BOARD SECRETARIAT BOARDROOM

S/N	NAME	EMAIL ADDRESS	CONTACTS	SIGNATURE
1.	Rachel Namuli	namuli@mbas.co.ug	0706515635	
2.	Edward Kasule Musisi	ekmusisi@gmail.com	0792983984	
3.	Flora Jwibwajigala	florajwibwajigala@gmail.com	0772-731465	
4.	Babwabe Joseph	mbwabe@gmail.com	0772-618588	
5.	SP Kabwabe Gaba	gabwabe@gmail.com	0772 32980	
6.	Jerome S. Olowo	jsolowo@gmail.com	0772 960 570	














ATTENDANCE REGISTRATION FORM

MEETING OF THE TASK FORCE ON THE INVESTIGATION INTO THE FIRE OUTBREAK AT MAKERERE UNIVERSITY HELD ON TUESDAY 29TH SEPTEMBER 2020 AT 02:00PM AT THE NATIONAL BUILDING REVIEW BOARD SECRETARIAT BOARD ROOM

S/N	NAME	EMAIL ADDRESS	CONTACTS	SIGNATURE
1	Rachel Namuli	mamuli@measecs.com	0706515635	
2	JEROME S. OLBING Prof James J. OLBING	jsolo00@gmail.com mwest@measecs.com	0772960570 0772431465	
3				
4	Kagamba Lawrence	kagambalawrence001@gmail.com	0782866584	
5	Mwabasa Mary	mary.mwabasa@gmail.com	0782448910	
6	Nyauzi Rashid	nyauzirashid6@gmail.com	0781510510	
7	Deou J.M	jm2020m@yaho.com	0775581903	
8	Stephen James Kitwaka	skitwaka@gmail.com	0782562769	
9	Ssegawa Simon	simonseghwa@gmail.com	0771894074	










ATTENDANCE REGISTRATION FORM

MEETING OF THE TASK FORCE ON THE INVESTIGATION INTO THE FIRE OUTBREAK AT MAKERERE UNIVERSITY HELD ON TUESDAY 30TH SEPTEMBER 2020 AT 10:00AM AT MAKERERE UNIVERSITY MAIN BUILDING.

S/N	NAME	EMAIL ADDRESS	CONTACTS	SIGNATURE
1.	Rachel Namuli	namuli@meassocs.com	0706515635	
2.	JEROME S. OLOHO	jsolowa@gmail.com	0772 960 570	
3.	Crem Jim	justconk@yahoo.com	077 5581903	
4.	Margaret Mary	mary.mbakasa@gmail.com	0782448942	
5.	Musa Mulundwa	Mukaibat@gmail.com	0789-493-222	
6.	ASP Anniko Drien	driscafionmukad@gmail.com	0788583841	
7.	D/ASP Tirucatan cavers	christinulaga@gmail.com	0782468116	
8.	Kabasunguzi Margaret	kabasunguzimargret2015@gmail.com	0772901903	
9.	LUNKUSE NATASHA K	natasha.lunkuse@works.gov.ug	0777198383	
10.	Kimbona Markin	kimbonasmn@jaboo.com	0772419906	
11.	D/ASP Sabakaki Juliana	juliana.sabakaki@gmail.com	0775512986	












ATTENDANCE REGISTRATION FORM

MEETING OF THE TASK FORCE ON THE INVESTIGATION INTO THE FIRE OUTBREAK AT MAKERERE UNIVERSITY HELD ON TUESDAY 30TH SEPTEMBER 2020 AT 10:00AM AT MAKERERE UNIVERSITY MAIN BUILDING .

S/N	NAME	EMAIL ADDRESS	CONTACTS	SIGNATURE
12.	MUHUMUZA BERNARD	bernardmuhumuza@gmail.com	0772709512	
13.	NYANZI RABETHA	NyAnziRabetha@gmail.com	0702570570	
14.	Shylu Kabuka	Shylu1@gmail.com	0782062707	
15.	Fung'ani Gubb Mureziya	mureziya@gmail.com	07724731045	
16.	OBITEO CONSTANSI OKIRIA	constansiokiria@gmail.com	0776999211	
17.	SSECIZO SIMON	simon.ssecizo@gmail.com	0777894074	
18.	SP Kabeemu Gladys	gladyskabeemu@gmail.com	0772389358	
19.	TIDO PADDIE AK	tido.paddie@gmail.com	0753378210	
20.	MANUENO HERBERT	herbert.manueno@gmail.com	0753129410	
21.				
22.				









ATTENDANCE REGISTRATION

MEETING OF THE TASKFORCE ON THE INVESTIGATION INTO FIRE OUTBREAK AT MAKERERE UNIVERSITY HELD ON THURSDAY 01ST OCTOBER 2020 AT 10:00AM AT MAKERERE UNIVERSITY FREEDOM SQUARE

S/N	NAME	EMAIL ADDRESS	CONTACTS	SIGNATURE
01	SP Kahinda Gassony	kgassony@gmail.com	0772320958	
2	Rachel Namwe	namuli@meadows.com	0706515635	
3	Edward Kasule Musisi	ekmusisi@gmail.com	0772783754	
4	MUTUMUKA BERNARD	bernardmutumuka@gmail.com	077240512	
5	Juliana Sebakaki	jellian.sebakaki@gmail.com	077512956	
6.	Musa Mulindwa	musaidata@gmail.com	0789493222	
7	Mbabazi Nancy	nancy.mbabazi@gmail.com	0782448942	
8	STAN TIBUKWA ERIC	christimlog@gmail.com	0782468116	
9	NAKABIRI HASIFA	nakabirihassifa@gmail.com	077449684	
10	MTC MANAGEMENT CARELES	charlesmungele@gmail.com	077283755	
11	Alob Achola.2-IPAS	ipastana@gmail.com	0702-374811	





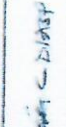




ATTENDANCE REGISTRATION

MEETING OF THE TASKFORCE ON THE INVESTIGATION INTO FIRE OUTBREAK AT MAKERERE UNIVERSITY HELD ON THURSDAY 02nd OCTOBER 2020 AT 10:00AM AT THE BOARD ROOM OF THE NATIONAL BUILDING REVIEW BOARD.

S/N	NAME	EMAIL ADDRESS	CONTACTS	SIGNATURE
1.	KATONDO LAURENCE	katondolaurence2017@gmail.com	0782606554	
2.	MUBABALI MARY	mary.mubabali@gmail.com	078948942	
3.	SSEGWA SIMON	simon5segwa@gmail.com	0777874074	
4	STEPHEN KIBUKA	steph1equu@com	0783069709	
5.	MYENZI RASHID	nyenzi.rashid@gmail.com	0701510510	
6	KANEENE ENOCH	enochkaneene@gmail.com	0630000111	
7.	MUSIMBA GO JOSEPH	musimbagojoseph5@gmail.com	0775382064	
8	SPOTAKUBWA GREGORY	spotakuba@gmail.com	0772329956	









ATTENDANCE REGISTRATION FORM

MEETING OF THE TASKFORCE ON THE INVESTIGATION INTO FIRE OUTBREAK AT MAKERERE UNIVERSITY HELD ON TUESDAY 06TH OCTOBER 2020 AT 11:00AM AT MAKERERE UNIVERSITY

S/N	NAME	EMAIL ADDRESS	CONTACTS	SIGNATURE
1.	Eng. Dr. Rachel Namuli	mamuli@meassocs.com	0706515635	
2.	Eng. Edward K. Musisi	ekmusisi@gmail.com	0772783784	
3	Jerome S. Olowo	isolowo@gmail.com	0712960570	
4	MARGUENI HERBERT	herbertmargueni@gmail.com	0753129410	
5	D/ASO Anuro Price	priceanuro@gmail.com	078083841/0901537010	
6	MARGUENI HERBERT	herbertmargueni@gmail.com	0772983785	
7	D/MP TIRULAKA CHERS	christianaga@gmail.com	0782468116	
8	D/ASP Sebatak Juliana	juliana.sebatak@gmail.com	0775512786	
8	SP Kahoa Anun Geoffrey	ahyge@gmail.com	07252978	

ATTENDANCE SHEET FORM

MEETING OF THE TASK FORCE ON THE INVESTIGATION INTO FIRE OUTBREAK AT MAKERERE
UNIVERSITY HELD ON TUESDAY 13TH OCTOBER 2020 AT 10:00AM AT THE BOARDROOM OF THE
NATIONAL BUILDING REVIEW BOARD.

S/N	NAME	EMAIL ADDRESS	CONTACTS	TITLE	SIGNATURE
1.	Eng. Dr. Rachel Namah	rncmuh@measso.co.com	0706515635	Lead Investigator NBRB	
2.	Andrew W. Anusien	andrew.anusien@nbf.gov.ug	0779624751	Asst. Dir. NBRB	
3.	Jerome S. Olowo	jsolowo@gmail.com	0772965570	Architect NBRB	
4.	Mbabwezi May	mewy.mbabwezi@gmail.com	0752448742	KMP Forensics	
5.	Nyanzi David	nyanzidavid6@gmail.com	0701570510	KMP NBRB	
6.	Eng. Edward K. Okusi	ekokusi@gmail.com	0772783784	Investigator NBRB	
7.	MUSIMBAGO JOSEPH	musimbagojoseph5@gmail.com	0775382061	NBRB	
8.	SP Kabesha Fredrick	fredrick.kabesha@gmail.com	0772329988	NBRB	

ATTENDANCE SHEET FORM

MEETING OF THE TASK FORCE ON THE INVESTIGATION INTO THE FIRE OUTBREAK AT MAKERERE UNIVERSITY HELD ON 16TH NOVEMBER 2020 AT 10:30 AM AT THE BOARD ROOM OF THE NATIONAL BUILDING REVIEW BOARD.

S/N	NAME	EMAIL ADDRESS	CONTACTS	TITLE	SIGNATURE
1	Chair Eng. Dr. Rachel Namuli	namuli@measscs.com	0706515635	NBRB/CIPE	
2.	Eng. Hans Julius Nwesiya	nwesiya@measscs.com	0772431465	NBRB Eng.	
3.	Muitemuza Bernara	bernara@measscs.com	077401512	KMP/CO	
4.	Jerome S. Olowo	jerome.olowo@nrb.gov.ug	0772960570	NBRB	
5.	Miss Anthony Girona	amongirona@gmail.com	0772854297	Inv/CRS/D coord.	
6.	Daph Achola Z. Ipas	ipasachola@gmail.com	0782-374811	INVESTIGATOR	
7	Dr. Pmbabazi Mary	mary.pmbabazi@gmail.com	0782448942	KMP/SOCO	
8	EVA KATUSABE	lynms@yahoo.com	0779657582	PRINCIPAL SAFETY INSPECTOR	
9	Sp. Feliceba Obidya	feliceba@gmail.com	0772325956	Research NBRB	
10	Stephen Kitooka	stephen.kitooka@gmail.com	0782062709	Inv. Coord. Inv. Unit	
11.	MUSIMBAGO JOSEPH	musimbagojoseph5@gmail.com	07753882061	NBRB	

Annex 2: Interviews**1 Interview with Deputy Director Fire and Rescue, Mr. Kihanda Hassan**

Mr. Kihanda Hassan was at the scene of the fire when the lead investigator arrived at the Makerere University Main Building. He said he got a telephone call at 12:49 a.m. informing him about the fire. When he reached the Main Building, the fire was in the northern wing. The whole northern wing was lit up. He said the fire spread very fast because the floor was made of wood and there were papers in the offices. He added that the fire spread to the upper floors because there were wooden partitions that did not touch the ceiling. In addition, there was no fire retardant door. The building was old and did not have a fire alarm. Mr. Kihanda said that the fire and rescue department had never inspected the building because the University administration kept postponing inspection of the building.

2 Interview with Director Engineering, Makerere University, Eng. Christina Kakeeto

Two interviews were held with the Director of Engineering, Eng. Christina Kakeeto. The first interview was conducted on 21st September 2020. Below is a summary of the interview.

The Director Engineering, Eng. Christina Kakeeto said the Main Building was safe for inspection. The bricks used in construction of the building were very good and they became stronger with time. She added that the structural makeup of the Main Building was brickwork and the columns were brickwork. She however cautioned that the I-Section was deformed and may not be sound. She said that the floor sections were brickwork finished in wood or terrazzo, however the area where the fire started had purely wooden floors. The roof was purely made of timber and had been refurbished a year ago. The walls and floor of the Council Room were wooden. She said that paper in the offices contributed to the fire.

Eng. Kakeeto said that someone went in and switched off the electric power. She said that there is a central place for power in the Main Building. She added that wiring in the building was on the surface, and that power could be isolated on each floor.

Eng. Kakeeto said that her department had two electricians: Sebakakyi Paul and Kato Lazarus.

Eng. Kakeeto said the conduit in the Main Building was metallic.

She asked the investigation team to send her the list of questions they wanted answered as her team would be in a better position to answer the questions. She also asked the team to send her the list of people they wanted to interview.

Eng. Kakeeto, the Director Engineering was interviewed a second time on 24th September 2020.

She started off with a description of the Estates and Works Department's staffing. She said the structure allows for an Administrative Assistant, a Transport Officer, a Land Surveyor, a Housing Overseer and three civil engineers reporting to her. Wardens and custodians are part of the Estates and Works Department. There are also plumbers and electricians who report to the civil engineer. She said there was a gap in the structure in that there was supposed to be a senior technician to whom the electricians report. There is an Assistant Manager, Darius, although there is no manager to whom he reports. There is only one civil engineer, Ezra. There is a land surveyor, Carol Namutosi.

Eng. Kakeeto said the department has requested for an electrical engineer but has not got one. She said her team learned a lot on the job and handled things not in their docket, for example, Darius handles electrical issues. On joining the department, she found that Darius had been appointed to supervise the electricians, but this was not done in writing. She did not formalise his appointment.

Eng. Kakeeto said due to lack of funding they do reactive maintenance and not preventive and routine maintenance. Staffing levels are low and they have many areas to attend to.

She said the Main Building would be her least area of attention because university management sits there and the custodian takes care of the building. The halls of residence are more vulnerable. The Main Building was not her main concern.

Most of the electrical problems are simple and the technicians will testify to that, and that is how Darius is able to understand the electrical problems.

She was not aware that sockets in the Finance Department had been changed. They could have done work on their own. She however promised to find out.

The department has a store where they keep things procured through the Procurement Department. They however did not have a storekeeper. They have asked for a storekeeper but have never gotten one. They have tried to procure materials but have failed, Systems in the University are all broken.

Eng. Kakeeto said the Estates and Works Department prepared a detailed report that was presented to Council, on the state of the estates. The report included staffing needs, for example, the need for a Transport Officer. Council said they appreciated the report. Management is aware of the problems. The Government gives the department UGX 150,000,000 a year for maintenance. They are told that is the money available and should fit their budget within that. They also get money from the Capital Budget.

The department has no tools and equipment.

She said she has done 300% for the University and has refused to get sucked in. At some point she was leaving the University though. She did not want to apportion blame, but neither can she apportion blame to the Estates and Works Department. She says one cannot work without tools and human resources.

Eng. Kakeeto presented a request for an assessment of wiring in the Main Building and an estimated amount for re-wiring of the Main Building.

She liaised with management to send to her anything estate related to ascertain what was done before payment was effected. The University Secretary always sends the claims back to her. Eng. Kakeeto said houses were a challenge. She did not have a housing oversee, hence it is difficult to keep track of the houses. She however added that one cannot use university money to do estates work without her knowledge.

On the night of the fire she got a message from Darius and she called him. The Vice Chancellor had called Darius asking if there was a water point at the Main Building. Eng. Kakeeto called the VC who confirmed the Main Building was on fire. He said the northern wing was burnt and the fire was spreading to the southern wing, and then switched off his phone. She reached the Main Building at 6:00 a.m. on Sunday 20th September 2002, after her husband compelled her not to go to the university at the time she heard the news of the fire.

Eng. Kakeeto said that in 2018 she received a report of a fire scare. She was told there was something smoking on the light fitting.

She has never seen communication from the fire department requesting to do an assessment of the Main Building.

There is a lot to do on human resources. If you have the wrong people in the job you cannot do anything. There is a need to restructure the entire university. The current structure was not working.

3 Interview with University Bursar, Makerere University, Mr. Everest Beinomugisha

Mr. Everest Beinomugisha, the University Bursar said he was in the village when the fire incident occurred. He saw pictures of the fire on WhatsApp media. He started making telephone calls and was told that the Main Building was on fire. He travelled from the village and reached Kampala on the evening of Sunday 20th September 2020. He had personal documents in his office in the Main Building which were burnt. Mr .Beinomugisha said he was in shock.

The university's accounting information was accessible because with the EFIMIS one can log in from any computer, since data is saved by the Ministry of Finance, Planning and Economic Development and National Information Technology Authority (NITA).

19/12

Bm



AG

A7

1.1.0

The university was moving staff to other offices and was ready to receive students. The systems can continue receiving students. The University will request the ministry to release money so that they can commence operations, and will buy computers so that they can start off.

Mr. Beinomugisha said that the corner of the floor where his office was located had wooden steps and a door. He added that the steps had been there for a long time.

Mr. Beinomugisha said the second floor of the Main Building was occupied by the PRO, human resources office and audit office. The first floor of the building was occupied by the Vice Chancellor, Deputy Vice Chancellor (DVC) Finance & Administration, the University Secretary and the Deputy University Secretary. The ground floor of the building had the examinations office and accountants.

He said there were steps leading from the PRO's office to the University Bursar's office. The steps were not carpeted. The treads of the steps were made of timber. He was however not sure if the banister was made of timber.

Mr. Beinomugisha said he had the items below in his office:

- vi) two filing cabinets,
- vii) two computers,
- viii) printer,
- ix) water dispenser and
- x) a small refrigerator.

He said there were two computers and a printer in his secretary's office.

There was sanitiser at the entrance to his office. There was no safe and no fan in his office. He also said that he did not know if there was a safe in the building.

Mr. Beinomugisha said his office had a carpet.

Mr. Beinomugisha said that his duties as the University Bursar are supervision of financial planning and management.

He said people with access keys to his office are the Manager Accounts & Reporting, cash office, salaries office and Manager Financial Reporting.

Mr. Beinomugisha said that the front entrance of the Main Building was always open.

Mr. Beinomugisha said the electricians from the Estates and Works Department handle safety in the building and Ms. Eunice handles the computers.

Mr. Beinomugisha said he did not have fire extinguishers in his office. The Main Building had Closed Circuit Television (CCTV) cameras. He however said that since he joined the University he had not come across expenditure on CCTV cameras.

With regard to exits on the Main Building, Mr. Beinomugisha said there is a main door and the main hall has an exit door on each side. There is no other exit from the Main Building. When asked whether there was an emergency exit on the Main Building, he said that they considered the front exit as the emergency exit. The Custodian has the key to the doors at the main hall, but he does not know where the Custodian lives.

Mr. Beinomugisha had never seen the evacuation plan of the Main Building. He had never seen a fire drill or fire alarm at the Main Building

Mr. Beinomugisha informed the investigation team that Mr. Lubowa Gyavira is the Manager Accounts & Reporting and Mr. Bukunya Vincent is the Accountant, and they have their own office. They were in the Main Building on official duty on Saturday 19th September 2020. They had routine work to do, with a deadline, which they may not have finished on Friday 18th September 2020. The work had a deadline.



A-C

NR



AZ

T

Mr. Lubowa Gyavira and Mr. Bukenya Vincent do reporting on a quarterly basis. There is no time limit for being at the University. He was not aware of any other staff in the Main Building over the weekend.

There is a book that people entering the Main Building sign. The book is kept by university security.

The Revenue & Grants department had separate offices. These functions were separated last year and staff was transferred. He was not certain when the transfers were effected, but management requested the human resources department to effect the transfers.

Mr. Beinomugisha said the Main Building had a fire assembly point and he pointed to an area in the Freedom Square. He had never seen smoke detectors in the Main Building and had never approved purchase of smoke detectors.

Mr. Beinomugisha said there are 53 staff who sued the University to be moved from M 6.1 to M 6.2. This happened before he joined the University. He has been at the University for four years. He said the staff won the case and the University want to appeal the ruling. He added that there are very many labour disputes at the University and the legal section could provide information on the labour disputes.

Mr. Beinomugisha had sanitiser on his table and at the entrance to his office. The quantity of sanitiser on his table was less than half a litre.

He said that his office did not experience problems with electricity. He said they ask staff to switch off all electrical equipment on leaving the office. Asked whether they have a policy for switching off lights in office, he said they did not have one.

Mr. Beinomugisha did not know where fuel for the generator of the Main Building was stored.

He said the last renovations on the Main Building took place eight months ago.

Mr. Beinomugisha said there were no pending investigations, in his department, but there was an external audit going on. The audit began in May 2020. The documents being checked by the external auditors are in the Senior Common Room.

4 Interview with PRO, Ms. Rita Namisango

Ms. Namisango joined the University in 2006 as a volunteer. She became an Administrative Assistant and then the Assistant Public Relations Officer (PRO). She rose through the ranks to the position of PRO.

Ms. Namisango's office was in Room 411 in the Main Building. She shared the office with Brands & Marketing and a Web person.

She was last in office on Friday 18th September 2020, between 7:00 p.m. and 7:30 p.m. She was at the University because they were documenting a symposium which ended on Friday 18th September 2020. She did not go to her office on Saturday 19th September 2020. She went to the University on Sunday 20th September 2020 at around 10:00 a.m. or 11:00 a.m.

She learned about the fire on the brief that was posted on the Makerere University social media page. She then coordinated information with the social media person for Makerere University.

Her office was the last one in the corner, facing St. Augustine Chapel. The office had two computers and a laptop. The office also had valuable artefacts showing the origin of the University and bound newspapers. The office also had visitors chairs, a computer table and a cabinet for sensitive documents. There was an electric kettle that was kept in the board room. The office messenger used a socket at the reception to boil water in the kettle. The kettle was metallic and had a top plug. The kettle was plugged into an extension cable at the reception. The office had four flasks, each with a capacity of two cups.

There was a carpet in her office, but other offices on the floor had a wooden floor.

The human resources office next to her also had a kettle for preparing tea. The human resources office was occupied by the secretary to the Director Human Resources, the office messenger, Mr. Kasita and the Senior Human Resources Officer, Mr. Lebu Julius.

She was told that fire had gutted the Main Building and it had started in the Finance Department.

Ms. Namisango said the university security and the Chief Custodian alert the Estates and Works Department in case of an emergency.

Ms. Namisango said they complained to the Estates and Works Department about power problems. Power was on and off on the floor from March 2020. She had occupied her office for two or three years. The office was also hit by a lightning strike, as a result computers, printers and scanners stopped working. She said the lightning strike also affected the CCTV cameras. The ICT team said all offices on the second floor were affected by the lightning strike. This happened one or two years ago. Ms. Namisango said she saw the ICT and Estates and Works Department working on the electrical installations. She was given a new computer and some other computers were replaced. Some equipment was completely damaged.

Ms. Namisango said there were rats in the office. The rats were in the roof and they ate wires a year ago. They were however poisoned. The Local Area Network in her office was also affected by the rats. Mr. Yunis Musisi from the ICT department did an assessment of the Local Area Network (LAN).

On a weekly basis, power would flicker in the whole building and go off for about five minutes. Sometimes the custodian would say that the Estates and Works Department was working on the power.

Sanitiser for her office was requisitioned from the Chief Custodian and she did not store sanitiser in her office.

There were fire extinguishers in her office but there were no fire alarms and fire drills were not held in the Main Building.

Ms. Namisango said there was a time when the Main Building was going to burn. The fire started in the Central Registry. She said Mr. Ssanyu Lawrence, the Ag. Director Human Resources would have more information on the fire. Mr. Sanyu informed the Deputy Finance & Administration about the fire.

Ms. Namisango said there was a position of Manager Communication & International Relations, and therefore she has no authority to speak on behalf of the University. She however added that his contract expired on 31st July 2020 and the position was advertised. She did not apply for the position. No one has been appointed to act in the position of Manager Communication & International Relations. Ms. Namisango said she coordinates communication for the University but is not the spokesperson for the University.

She said she was happy at the University. Asked why she did not apply for the position of Manager Communication & International Relations, she said the first time round she had hoped the position would be advertised before someone was appointed. A member of staff was however appointed. The media reported that she was disappointed following appointment of a member of staff to the position. She said she worked well with the Manager Communication & International Relations. She did not apply when the position was advertised recently because she thought her boss would apply for the position. She insisted that she had no problem with the staff at Makerere University.

Ms. Namisango said the Main Building had a first aid box in the Council Room, however no incidents were recorded.

Ms. Namisango said she had not received a complaint on labour relations, but has heard that there are labour disputes in the Main Building. She listed labour disputes in the human resources office. She said that one officer wrote a letter about another officer, and a letter was written to the Director Human Resources, saying that an officer was being blackmailed. Ms. Namisango informed the investigation team that the Labour & Welfare Officer was Ms. Janet Nabukera and her telephone number was 0702635088.

Ms. Namisango said the servers in the ICT section are always powered, and there is no policy on turning off lights and equipment in the Main Building.

5 Interview with Custodian Main Building, Mr. Ampeire Immy

Mr. Ampeire Immy is the custodian of the Main Building. He supervises cleaners and security guards, and opens and closes offices. His duties are to monitor the condition of the Main Building. The Custodian reports to the Estates and Works Department.

Mr. Ampeire has an A level qualification. He sat for an interview for the position of custodian at the Main Building and passed the interview.

Mr. Ampeire said the Personal Assistant (PA) to the Vice Chancellor (VC) called him and told him about the fire at 1:30 a.m. on Sunday 20th September 2020. He said before the PA to the VC called him he had not heard of the fire.

He had ulcers on Saturday 19th September 2020, and went to the Main Building to get magnesium from the first aid box in the building. He lives in Nansana. The University gave him accommodation at Sir Apollo Kagwa. He uses the house at Sir Apollo Kagwa, but his family lives in Nansana.

Mr. Ampeire said he has no work schedule, but goes to the University anytime he is called upon. He is however supposed to leave the University at 5:00 p.m.

In 2018 he was called in the middle of the night about a fire in the Central Registry. He said that the fire in the Central Registry was caused by old wiring.

Mr. Ampeire said there were power outages in the Main Building. He also said that in the past lightning destroyed computers and printers in the Main Building. He could however not tell when the Main Building last had a power outage.

One of his roles is to switch on and off, and fuel the generator of the Main Building. He said that fuel for the generator is not stored on the premises. He buys fuel from the petrol station and fills the generator tank. The generator has a fuel gauge which guides him when refuelling. He last filled the generator two weeks ago. He filled it with six 20 litres jerrycans of fuel. He placed the empty jerrycans behind the Main Building. Mr. Ampeire said the capacity of the generator's fuel tank was 300 litres. Mr. Ampeire switches the generator to auto mode in the morning and switches it off at night.

Mr. Ampeire reported that the cleaners said they experienced electric shocks while cleaning the floor of the Main Building. The complaint was lodged by a cleaner called Monicah. This was reported to Mr. Darius Muwanguzi the Assistant Estates Manager and Mr. Paul Sebakakyi an electrician. Mr. Ampeire said that it turned out that the cleaners would pour water on the floor when cleaning. Given that there were cracks in the floor, the cleaners would experience electric shocks when cleaning the area. Mr. Ampeire could not tell whether the electric shocks were felt when the Main Building was on mains power or on generator. The Estates and Works Department said they did not have money to repair the building. He said that he documented all his complaints to the Estates and Works Department and would provide the documents to the investigation team.

Mr. Ampeire said that at times power in the Main Building would go for six hours. He added that in the past there was a problem in the power room when parts got burnt This was a year ago, when wires got burnt.

Mr. Ampeire said he wrote a report to the Director Engineering to install hose reels in the Main Building.

Mr. Ampeire normally leaves the University Bursar working in the Main Building at 9:00 p.m. or 10:00 p.m. People who work late have keys to their offices. He only has keys to the corridor and the common rooms. The main hall is only opened when there is a function. He has keys to the doors of the main

hall.


AZ NR Bos D.L A-G

6 Interview with Civil Engineer, Eng. Ezra Sekadde

Eng. Ezra Sekadde, the Civil Engineer, Estates and Works Department, said he heard about the fire on Sunday 20th September 2020, at 6:00 a.m., from Mr. Paul Sebakakyi. He rushed to the Main Building at 11:00 a.m. On arriving at the Main Building, he found the whole second floor had been burned. He saw the news of the fire on social media before he received the call.

Eng. Sekadde joined the University in 2008. His role is to look at general building components and structural elements of the buildings. He reports to the Director Engineering.

Eng. Sekadde said they are to do a structural integrity assessment of the burnt Main Building.

The Main Building is a load bearing building, with a structural system based on walls. There is a printery in the basement. The ground floor has offices. The first floor had finance offices with a mezzanine floor made of timber and steel. The roof structure was purely timber, and the ceiling was made of soft board. The mezzanine floor was introduced in the void and accessed through a staircase of a composite of steel and timber.

Structural repairs had not been done on the Main Building at the time of the fire. Minor renovations of the roof had been done because it was leaking. The roof tiles were removed and a Galvanised Iron (GI) sheet placed, then the roof tiles were replaced. He supervised repair of the roof which was done by a contractor, CK. This was done in 2019. The repairs to the roof did not tamper with the electrical installations. Painting was done internally in commonly used spaces and the main hall.

There were fire extinguishers in the Main Building. Each floor had a fire extinguisher on either side. There was a plan to repair smoke detectors in the Main Building. The Estates and Works Department had been requesting for this.

Electrical installations in the Main Building were due for replacement and the Estates and Works Department kept budgeting for replacement of the electrical installations. The problems with the Main Building had been raised by the Estates and Works Department, especially the electrical problems. Some of the issues were power not reaching certain offices. Eng. Sekadde was however not aware of electric shocks and lightning strikes in the Main Building. Complaints to the Estates and Works Department are received at the front desk of the Estates and Works Department, and sent to the officer in charge. These reports are logged in an incident log book. Eng. Sekadde said that the Estates and Works Department holds meetings as part of their operations.

There is no designated area for eating meals in the Main Building. There are canteens outside the Main Building where staff have meals.

Eng. Sekadde was aware of the rat problem in the Main Building. Two years ago the building was fumigated.

Two years ago, there was a fire drill in the Main Building and it involved showing staff how fire extinguishers were used.

The Custodian, Main Building receives all complaints and relays them to the Estates and Works Department.

The last works carried out in the Main Building were renovations in September 2020. The Estates and Works Department was developing a Preventive Maintenance plan.

The University does not have an evacuation plan.

Eng. Sekadde said the building has custodian and security personnel, but he had not spoken to the custodian, and does not know if the custodian was the last person to leave the building. He said that the custodian reports to the Finance & Administration Department and is not Estates and Works Department staff. He also said that there could be some management staff in the building.

Eng. Sekadde said he is not aware of any ongoing labour disputes.

Upgrades to buildings for fire safety are budgeted for annually, but the Estates and Works Department are always informed that there is no funding. The Estates and Works Department try to do their best with the resources they have. They have maintenance budget funds for small things. Big projects are pushed to the Capital Expenditure (CAPEX) budget.

Eng. Sekadde said he thought the fire at the Main Building was caused by an electrical problem. He attributed this to the fact that the electrical installations had not been overhauled. He however said that the wiring in the roof is on the soffit and the works on the roof did not tamper with the wiring. The electrical section of the Estates and Works Department was with contractor when the roof was undergoing renovations. No electrical installations were undertaken during renovation of the roof.

Eng. Sekadde used drawings of the Main Building to describe the offices that were found on the second floor of the building. He said the major electrical appliances on the second floor were computers, printers and ceiling fans. He also said that the void in the northern wing of the Main Building was killed and a floor was created. He however did not know when the floor was created.

Eng. Sekadde said he was worried about buildings in the University that were constructed in the 1950s and 1975s, and halls of residence.

7 Interview with Assistant Estates Manager, Mr. Darius Muwanguzi

Mr. Darius Muwanguzi is the Assistant Estates Manager, reporting to the Director Engineering. He started working in the Estates and Works Department in 2011. His role is to supervise repair and maintenance projects in the University.

Mr. Muwanguzi was at the University on Saturday 19th September 2020, in Mitchel Hall.

Mr. Muwanguzi got a telephone call from the Vice Chancellor (VC) Makerere University at midnight, or around 1:00 a.m. The Vice Chancellor asked him if the University had water at the reservoir. He asked him to tell the staff to release water at the reservoir. Mr. Muwanguzi instructed the staff to release the water at the reservoir. The Vice Chancellor was advised to pick water from the main distribution point at the Main Building. Mr. Muwanguzi received many telephone calls informing him that the Main Building was burning. Mr. Muwanguzi went to the Main Building on Sunday 20th September 2020 between 8:00 a.m. and 9:00 a.m. and found the site condoned off. He moved around with the fire brigade looking for fire hydrants. A fire hydrant was found at the eastern gate on Monday 21st September 2020.

Most of the electrical wiring in the Main Building was in the wall, in conduit, except in the addition in the northern wing, where the wires were on the surface. The wires were on the slab. There was a wooden ceiling on the second floor. The second floor had timber all through. The electrical wiring in the suspended ceiling was for lighting. Mr. Muwanguzi was not sure whether there were ceiling fans on the suspended ceiling. He said sockets may have been powered through conduits going through the ceiling.

Mr. Muwanguzi said he thought some fire drills were undertaken. There were fire extinguishers in the corridors of the building.

The occupants of the Main Building complained to the Estates and Works Department about the University Secretary's wing not having power. No lightning strikes and electric shocks were however reported.

Mr. Muwanguzi said that the electrical engineer retired and the electricians report to him. He has however not received formal communication on the electricians reporting to him. His role in the Estates and Works Department is to oversee infrastructure, i.e. roads and water.

When complaints come from users, they address them, for example, they have replaced circuit breakers. The decision to change the circuit breakers was made by the electricians. He could not tell whether they changed the circuit breakers, Distribution Boards or consumer's units. There is a book in the Estates and Works Department where jobs done are recorded.

They have never inspected electrical installations in the Main Building and have never done an electrical assessment of the building.

The Main Building was fumigated.

Mr. Muwanguzi believed the building was earthed because there was a copper tape. He however did not know where the earthing manholes were located.

Mr. Muwanguzi was not sure which transformers served the Main Building, but said that the University has a number of transformers. He said the isolation point for the transformer is in the power room. The University has two feeders that are on bulk metering. When one meter runs out of units, the University switches to the second feeder.

Mr. Muwanguzi said that in 2018, there was a spark in the Central Registry and not a fire. The choke was overheating and caused a spark. No report was made on the spark since it was not a major thing.

Mr. Muwanguzi did not know whether the diesel generator was earthed.

8 Interview with Electrician, Mr. Paul Sebakakyi

Three interviews were held with Mr. Paul Sebakakyi, an electrician with the Estates and Works Department of Makerere University. The first interview was held on 23rd September 2020 at Makerere University Freedom Square. Below is a summary of the first interview.

Mr. Paul Sebakakyi has been an electrician at the University since 1993. He maintains electrical installations at the University. He has a Diploma in Electrical Engineering from Kyambogo attained in 2005. He had a certificate in electrical installations from Busitema, at the time he started working at Makerere University.

Mr. Sebakakyi said that on Saturday 19th September 2020, he switched off security lights at 8:00 a.m., at the Senate Building, JICA and Pool Road, before leaving the University. He returned to the University at 6:00 p.m. on the same day to switch on the lights, and then left the University.

Mr. Sebakakyi received a telephone call at midnight, on Sunday 20th September 2020, informing him that the Main Building was on fire. He drove to the Main Building and switched off the feeder pillar. The feeder pillar had fuses and wires. Power went off when he switched off the feeder pillar, but the fire was still raging. He went to the feeder pillar to switch off power in case it had been started by electricity. It took ten minutes to switch off the feeder pillar from when he was informed about the fire. Mr. Sebakakyi did not call the Umeme toll free line to inform them about the fire. By the time he switched off the feeder pillar the security lights at the Main Building were on.

Mr. Sebakakyi went to the Main Building after switching off the feeder pillar and showed the fire brigade the back and side access to the Main Building. While switching off the feeder pillar he saw fire coming out of the roof of the Main Building, on reaching the building, there was fire coming out of the windows.

Mr. Sebakakyi said he does not believe the fire was caused by electricity since the Main Building had circuit breakers. He could not however say for certain that the fire was not caused by electricity.

He said there was no fuel kept in the Main Building and he could not tell whether the fire was caused by sanitiser.

There was a standby team for the Estates and Works Department, but they did not have a rota.

Mr. Sebakakyi said they did not have an emergency procedure but use fire extinguishers when they are available.

When people have a problem in a building they report to the Estates and Works Department and the department follows it up.

Mr. Sebakakyi said they do not carry out building inspections.



AZ

NR

Bm

RN



SKS

K-G

He said he does not have an installations permit from the Electricity Regulatory Authority (ERA), but will apply for one.

Mr. Sebakakyi has never worked on improvement of earthing on the Main Building.

They have never received any complaints about electric shocks, however they have been informed about power going on and off.

Mr. Sebakakyi heard about the lightning strike at the University but this was not reported to the Estates and Works Department. There were copper tapes on the main building for lightning protection.

The Distribution Board in the power room got burnt so they replaced it.

Power from the feeder pillar goes to the power room through an underground cable. This is a three phase supply. There are busbars in the power room from a rising main, taking power to each floor of the Main Building. The rising main runs through metallic conduit. Single phase power is taken to each floor. There are two consumer's units on each floor, one for lights and one for sockets.

Mr. Sebakakyi went to the power room on Monday 21st September 2020 to look at the circuit breakers. He said that some of the circuit breakers had tripped where the fire occurred, i.e. in accounts office, University Bursar's office and the human resources office. He said the circuit breakers in the power room are not labelled, but he knows the circuits they supply power to. He found the printery open, through which one passes to get to the power room. At the time when the investigation team was asking to see the power room, the person who opens the printery had left the Main Building.

Mr. Sebakakyi said the northern wing had computers, stand fans and table fans only. It had no ceiling fans. There were no temporary power installations in the Main Building, however extension cables were in use.

He had not received a report of rats in the Main Building.

He said people handle electrical appliances not in use differently.

Mr. Sebakakyi said they had bulk metering for electricity at the University. There are sub-meters for pre-paid systems, but there is no sub-meter for the Main Building.

There was no report on electrical problems in the Main Building. The only report received was that there were tubes on the first floor of the Main Building that were not working. The report was logged the week prior to the fire. The tubes and starters were replaced.

Mr. Sebakakyi did not do any work on the roof when it was undergoing maintenance. He did not know if the contractor working on the roof touched any wiring. The contractor must have however used electricity. The University's electricians supervise contractors doing electrical works.

Mr. Babumba Joseph was in charge of electrical repairs in the Main Building. Mr. Babumba reported to Mr. Darius Muwanguzi, the Ass. Estates Manager.

The second interview with Mr. Paul Sebakakyi was held on 28th September 2020 at NBRB offices. Below is a summary of the second interview.

Mr. Sebakakyi said he has an Ordinary Diploma in Electrical Engineering, obtained in 2005. He started working in Makerere University in 1993. At the time he joined the University there were 24 electricians, and currently there are four electricians. There are manpower gaps since staff who retired or left the University have not been replaced.

Mr. Sebakakyi said they fixed lights and the Main Distribution Board (MDB) at the Main Building after the COVID-19 pandemic lock down. He bought the MDB from Kiyembe. The Main Distribution Board was complete with circuit breakers. He picked on wires and fixed them into the circuit breakers. He said he did not know to which floor the circuits went. He also said that some consumer's units were looped

AZ

NZ

Bm

mal



A-C

because the cable broke. Mr. Sebakakyi said there were fuses on the MDB supplying lights and sockets on the ground floor. He said that the ground floor consumer's units, i.e. on the stage, senior common room, custodians room and accounts were connected to fuses in the power room. Mr. Sebakakyi bought the MDB himself because they were allowed to do self procurement for items that cost less than UGX 2,000,000. Mr. Tamale from the Estates and Works Department verified the MDB. Mr. Tamale retired from University service in April 2020.

Mr. Sebakakyi said the 63 A circuit breakers on the MDB are connected to the consumer's unit on the first floor. The 40 A circuit breaker in the MDB is connected to small main switches. He could not point out the main switches it was connected to.

Mr. Sebakakyi said the consumer's units that got burnt on the second floor were connected to fuses in the MDB. He added that the PRO's office was connected to the consumer's units in the Finance Department. There were three consumers' units in the Finance Department, all connected to isolators in the power room.

The Main Distribution Board was changed because the fuse boxes were bad and were sparking. People in the printer kept calling the Estates and Works Department saying there was something smelling. The Estates and Works Department eventually decided to change the MDB. A year ago, Mr. Kirabo, the Manager Printery, called him saying something was burning. He went to the power room with two interns and found the fuse smelling and sparking. The fuse was loose. They opened the loose fuse, replaced the wire and put back the fuse. He said the burning was caused by a loose connection in the fuse.

Mr. Sebakakyi said there was also an incident on the first floor where a light was not working. It was blinking. He changed the tube and choke. He also replaced old tubes and starters on the ground floor.

Mr. Sebakakyi said the water pump was powered from the first floor.

On the night of the fire he was called past midnight by a security personnel, and he went to the feeder pillar to switch off power. He said by the time he reached the feeder pillar, the lights in the Main Building were still on. The lights in the Main Building that were on could have been powered by the first floor consumer's units. Lights inside the Main Building are normally switched off at night.

Mr. Sebakakyi has never been called to reset circuit breakers that had tripped in the Main Building.

Mr. Sebakakyi said that when the fire incident occurred in 2018, he was in Kabanyoro. There were sparks in a light fitting in the Central Registry which were about to cause a fire. He recanted his earlier statement on there being no fire incident in the Main Building, prior to the fire of 19th September 2020. When he returned from Kabanyoro, the ceiling of the Central Registry had been replaced. He does not remember having to replace a fuse after the fire incident in the Central Registry.

The consumer's units on the second floor that got burnt in the fire of 19th September 2020 were Crabtree consumer's units.

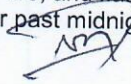
The tubes in the PRO's office were fluorescent tubes with chokes.

Mr. Sebakakyi could not tell whether there were kettles with poor cabling and extension cables that were sparking, as they do not move around checking for kettles and extension cables in the offices. The Estates and Works Department were called to handle problems with lights, sockets (broken sockets) and switches. He had never been called to replace sockets on the second floor.

Mr. Sebakakyi had never by-passed a consumer's unit on the Finance Department's floor.

Mr. Kato Lazarus, one of the electricians once reported that the water pump was not working. He did not know what Mr. Kato did on the water pump, but a switch in the water pump room was non-functional.

When Mr. Sebakakyi went to switch off power at the feeder pillar on the night of the fire the whole section of the Finance Department was on fire, and flames had started coming out through the roof. He went to switch off power at the feeder pillar past midnight.



AZ NR BM RN  A-U

Mr. Sebakakyi said he does not believe the origin of the fire was an electric fault. He said the fire could not be from an electric fault or a short circuit since there were circuit breakers in the Main Building.

Mr. Sebakakyi said he was called past midnight by a security personnel and informed about the fire. His phone was checked. The numbers below called him at the given times.

- 0775954592 on Sunday 20th September 2020, at 1:29 a.m. and 1:30 a.m. and
- 0782273748 on Sunday 20th September 2020 at 1:33 a.m.

Mr. Darius Muwanguzi called him after the numbers above called him.

Mr. Sebakakyi said when he pulled out the fuses from the feeder pillar they were carrying current, because there was a small spark when the fuses came off. Power in all the buildings connected to the transformer went off. The fuses however did not make a big noise when they were pulled out.

Mr. Sebakakyi said if there had been a short circuit in the PRO's office, a circuit breaker on one of the consumer's units on the second floor would trip.

Each floor had a 10 mm and 16 mm cable through the conduit from fuses to the consumer's units.

Mr. Sebakakyi was asked why he knowingly bought 40 A and 32 A circuit breakers, and why he did not buy 63 A circuit breakers. He said there were no 63 A circuit breakers in the shop and they were going to change the circuit breakers to the appropriate ones in future. He was asked why he did not buy the circuit breakers from CHINT. He said that the proprietor of the shop where he bought the MDB said he would change the circuit breakers to 63 A circuit breakers in future.

Mr. Sebakakyi did not know who made the dry joints in the wiring at the stage of the Main Hall. That was the only dry joint he had seen in the Main Building. He did not know if there were any other dry joints in the Main Building.

Mr. Sebakakyi said there is an automated water pump that pumps water to the tank. The pump was installed by the plumbers. He and Mr. Kato Lazarus, the other electrician were present when the pump was being connected to power. If there was a problem with the pump they would have to look for its power source as he did not know where it was powered from.

9 Interview with Electrician, Mr. Kato Lazarus

Mr. Kato Lazarus started working at Makerere University as an electrician in 1991. He has a certificate in electrical installations and carries out maintenance at the University.

Mr. Paul Sebakakyi called him at 11:00 p.m. to tell him there was a fire at the Main Building. He went to the University the following day and the Main Building was out of bounds.

He was in the power room on Saturday 19th September 2020 to switch on the generator. He disconnected power to the generator. The main switch was in the on position when he visited the power room, but the cut outs were not plugged in. He does not know who removed the cut-outs. All the circuit breakers in the power room were on. He went to the power room to confirm that the changeover switch was on main power supply.

Mr. Kato said there were no electric shocks, power failures or lightning strikes reported in the Main Building. There is a book in the Estates and Works Department where problems are logged. A request for materials is made in writing to the supervisor to attend to a problem. At times a letter is written to the Director Engineering requesting for materials.

The CCTV cameras in the Main Building were not working. He did not know why the cameras were not working.

A 1 hp pump had been installed in the ceiling of the Main Building to pump water to the tank. Power was supplied to the pump with a 2.5 mm cable through a 20 A circuit breaker on the consumer's unit. The pump was replaced by a contractor, though he does not know which contractor replaced the pump.

He said he does not have an installations permit from the Electricity Regulatory Authority (ERA), but will apply for one.

Mr. Sebakakyi has never worked on improvement of earthing on the Main Building.

They have never received any complaints about electric shocks, however they have been informed about power going on and off.

Mr. Sebakakyi heard about the lightning strike at the University but this was not reported to the Estates and Works Department. There were copper tapes on the main building for lightning protection.

The Distribution Board in the power room got burnt so they replaced it.

Power from the feeder pillar goes to the power room through an underground cable. This is a three phase supply. There are busbars in the power room from a rising main, taking power to each floor of the Main Building. The rising main runs through metallic conduit. Single phase power is taken to each floor. There are two consumer's units on each floor, one for lights and one for sockets.

Mr. Sebakakyi went to the power room on Monday 21st September 2020 to look at the circuit breakers. He said that some of the circuit breakers had tripped where the fire occurred, i.e. in accounts office, University Bursar's office and the human resources office. He said the circuit breakers in the power room are not labelled, but he knows the circuits they supply power to. He found the printery open, through which one passes to get to the power room. At the time when the investigation team was asking to see the power room, the person who opens the printery had left the Main Building.

Mr. Sebakakyi said the northern wing had computers, stand fans and table fans only. It had no ceiling fans. There were no temporary power installations in the Main Building, however extension cables were in use.

He had not received a report of rats in the Main Building.

He said people handle electrical appliances not in use differently.

Mr. Sebakakyi said they had bulk metering for electricity at the University. There are sub-meters for pre-paid systems, but there is no sub-meter for the Main Building.

There was no report on electrical problems in the Main Building. The only report received was that there were tubes on the first floor of the Main Building that were not working. The report was logged the week prior to the fire. The tubes and starters were replaced.

Mr. Sebakakyi did not do any work on the roof when it was undergoing maintenance. He did not know if the contractor working on the roof touched any wiring. The contractor must have however used electricity. The University's electricians supervise contractors doing electrical works.

Mr. Babumba Joseph was in charge of electrical repairs in the Main Building. Mr. Babumba reported to Mr. Darius Muwanguzi, the Ass. Estates Manager.

The second interview with Mr. Paul Sebakakyi was held on 28th September 2020 at NBRB offices. Below is a summary of the second interview.

Mr. Sebakakyi said he has an Ordinary Diploma in Electrical Engineering, obtained in 2005. He started working in Makerere University in 1993. At the time he joined the University there were 24 electricians, and currently there are four electricians. There are manpower gaps since staff who retired or left the University have not been replaced.

Mr. Sebakakyi said they fixed lights and the Main Distribution Board (MDB) at the Main Building after the COVID-19 pandemic lock down. He bought the MDB from Kiyembe. The Main Distribution Board was complete with circuit breakers. He picked on wires and fixed them into the circuit breakers. He said he did not know to which floor the circuits went. He also said that some consumer's units were looped

AZ

NZ

Bm

DN



A-C

because the cable broke. Mr. Sebakakyi said there were fuses on the MDB supplying lights and sockets on the ground floor. He said that the ground floor consumer's units, i.e. on the stage, senior common room, custodians room and accounts were connected to fuses in the power room. Mr. Sebakakyi bought the MDB himself because they were allowed to do self procurement for items that cost less than UGX 2,000,000. Mr. Tamale from the Estates and Works Department verified the MDB. Mr. Tamale retired from University service in April 2020.

Mr. Sebakakyi said the 63 A circuit breakers on the MDB are connected to the consumer's unit on the first floor. The 40 A circuit breaker in the MDB is connected to small main switches. He could not point out the main switches it was connected to.

Mr. Sebakakyi said the consumer's units that got burnt on the second floor were connected to fuses in the MDB. He added that the PRO's office was connected to the consumer's units in the Finance Department. There were three consumers' units in the Finance Department, all connected to isolators in the power room.

The Main Distribution Board was changed because the fuse boxes were bad and were sparking. People in the printer kept calling the Estates and Works Department saying there was something smelling. The Estates and Works Department eventually decided to change the MDB. A year ago, Mr. Kirabo, the Manager Printery, called him saying something was burning. He went to the power room with two interns and found the fuse smelling and sparking. The fuse was loose. They opened the loose fuse, replaced the wire and put back the fuse. He said the burning was caused by a loose connection in the fuse.

Mr. Sebakakyi said there was also an incident on the first floor where a light was not working. It was blinking. He changed the tube and choke. He also replaced old tubes and starters on the ground floor.

Mr. Sebakakyi said the water pump was powered from the first floor.

On the night of the fire he was called past midnight by a security personnel, and he went to the feeder pillar to switch off power. He said by the time he reached the feeder pillar, the lights in the Main Building were still on. The lights in the Main Building that were on could have been powered by the first floor consumer's units. Lights inside the Main Building are normally switched off at night.

Mr. Sebakakyi has never been called to reset circuit breakers that had tripped in the Main Building.

Mr. Sebakakyi said that when the fire incident occurred in 2018, he was in Kabanyoro. There were sparks in a light fitting in the Central Registry which were about to cause a fire. He recanted his earlier statement on there being no fire incident in the Main Building, prior to the fire of 19th September 2020. When he returned from Kabanyoro, the ceiling of the Central Registry had been replaced. He does not remember having to replace a fuse after the fire incident in the Central Registry.

The consumer's units on the second floor that got burnt in the fire of 19th September 2020 were Crabtree consumer's units.

The tubes in the PRO's office were fluorescent tubes with chokes.

Mr. Sebakakyi could not tell whether there were kettles with poor cabling and extension cables that were sparking, as they do not move around checking for kettles and extension cables in the offices. The Estates and Works Department were called to handle problems with lights, sockets (broken sockets) and switches. He had never been called to replace sockets on the second floor.

Mr. Sebakakyi had never by-passed a consumer's unit on the Finance Department's floor.

Mr. Kato Lazarus, one of the electricians once reported that the water pump was not working. He did not know what Mr. Kato did on the water pump, but a switch in the water pump room was non-functional.

When Mr. Sebakakyi went to switch off power at the feeder pillar on the night of the fire the whole section of the Finance Department was on fire, and flames had started coming out through the roof. He went to switch off power at the feeder pillar past midnight.

AZ NR BM DN  A-U

Mr. Sebakakyi said he does not believe the origin of the fire was an electric fault. He said the fire could not be from an electric fault or a short circuit since there were circuit breakers in the Main Building.

Mr. Sebakakyi said he was called past midnight by a security personnel and informed about the fire. His phone was checked. The numbers below called him at the given times.

- 0775954592 on Sunday 20th September 2020, at 1:29 a.m. and 1:30 a.m. and
- 0782273748 on Sunday 20th September 2020 at 1:33 a.m.

Mr. Darius Muwanguzi called him after the numbers above called him.

Mr. Sebakakyi said when he pulled out the fuses from the feeder pillar they were carrying current, because there was a small spark when the fuses came off. Power in all the buildings connected to the transformer went off. The fuses however did not make a big noise when they were pulled out.

Mr. Sebakakyi said if there had been a short circuit in the PRO's office, a circuit breaker on one of the consumer's units on the second floor would trip.

Each floor had a 10 mm and 16 mm cable through the conduit from fuses to the consumer's units.

Mr. Sebakakyi was asked why he knowingly bought 40 A and 32 A circuit breakers, and why he did not buy 63 A circuit breakers. He said there were no 63 A circuit breakers in the shop and they were going to change the circuit breakers to the appropriate ones in future. He was asked why he did not buy the circuit breakers from CHINT. He said that the proprietor of the shop where he bought the MDB said he would change the circuit breakers to 63 A circuit breakers in future.

Mr. Sebakakyi did not know who made the dry joints in the wiring at the stage of the Main Hall. That was the only dry joint he had seen in the Main Building. He did not know if there were any other dry joints in the Main Building.

Mr. Sebakakyi said there is an automated water pump that pumps water to the tank. The pump was installed by the plumbers. He and Mr. Kato Lazarus, the other electrician were present when the pump was being connected to power. If there was a problem with the pump they would have to look for its power source as he did not know where it was powered from.

9 Interview with Electrician, Mr. Kato Lazarus

Mr. Kato Lazarus started working at Makerere University as an electrician in 1991. He has a certificate in electrical installations and carries out maintenance at the University.

Mr. Paul Sebakakyi called him at 11:00 p.m. to tell him there was a fire at the Main Building. He went to the University the following day and the Main Building was out of bounds.

He was in the power room on Saturday 19th September 2020 to switch on the generator. He disconnected power to the generator. The main switch was in the on position when he visited the power room, but the cut outs were not plugged in. He does not know who removed the cut-outs. All the circuit breakers in the power room were on. He went to the power room to confirm that the changeover switch was on main power supply.

Mr. Kato said there were no electric shocks, power failures or lightning strikes reported in the Main Building. There is a book in the Estates and Works Department where problems are logged. A request for materials is made in writing to the supervisor to attend to a problem. At times a letter is written to the Director Engineering requesting for materials.

The CCTV cameras in the Main Building were not working. He did not know why the cameras were not working.

A 1 hp pump had been installed in the ceiling of the Main Building to pump water to the tank. Power was supplied to the pump with a 2.5 mm cable through a 20 A circuit breaker on the consumer's unit. The pump was replaced by a contractor, though he does not know which contractor replaced the pump.

Mr. Kato said he knows Mr. Mutesasira, an electrician attached to the Dean's office. Mr. Babumba Joseph had been in Mulago Hospital because he had COVID-19.

The Main Building had stand fans but not ceiling fans. The Vice Chancellor's office had a faulty stand fan which the electricians replaced. Electrical installations in the printery were on the surface.

Power to the Main Building could be isolated at the feeder pillar.

The electricians lack safety gear and tools. They are unable to carry out tests. They do not have an earth resistance meter or a multi-meter.

10 Interview with Manager Performance & Appraisal, Mr. Julius Lebo

Mr. Julius Lebo the Manager Performance & Appraisal started working at Makerere University in 2015. His office was next to the PRO's office on the second floor of the northern wing of the Main Building.

Mr. Lebo had files, a fan, a computer and a phone charger in his office. He was not using the fan in his office.

On the evening of Saturday 19th September 2020, his phone blacked out so he took it to Wandegeya for repair. The shop in Wandegeya sent him to Lugogo where his phone was repaired. He returned to his office at 3:30 p.m. and charged his phone up to 3:40 p.m. When he switched on his phone on the morning of Sunday 20th September 2020, he saw a picture of the Main Building burning. He called some people who told him the Main Building was burning.

Mr. Lebo said there was a time he was working late in the Main Building, with his colleague working on the other side of the Main Building, when there was smoke on that side. They called the fire brigade and the police, who arrived and put out the fire. Mr. Lebo said the fire was from the electric wiring. The University should have checked the wiring then. That was a warning that something more disastrous was going to happen. The entire wiring of the Main Building should have been changed. They however said it was a small thing and they had fixed it.

He also said there was a fire incident in 2018. It occurred during the day. They smelled cables burning but there was no fire, so they did not pay attention to the smell of something burning. They however saw smoke and alerted people. By the time the people arrived the soft board had started flaming. He said power did not go off on this incident.

Mr. Lebo said there were rats in the Main Building, in 2017, and they were killed.

The fluorescent tubes in the Main Building used to be changed. Power in the sockets would go off, but not often. He remembered cleaners talking about getting electric shocks near the tower. There was a time when they went to office and found the computers spoiled and they could not be repaired. This occurred last year. Mr. Lebo said it was impossible that the Estate Department did not hear about the fire incident. He said that reporting lines of the University do not allow him to discuss gaps in the Estates and Works Department. The Director Engineering is in charge of the Estates and Works Department and should discuss gaps in the department.

The messenger makes tea using an automatic kettle. The kettle is plugged into a socket and they do not use an extension cable.

Mr. Lebo does not smoke.

Most offices in the Main Building had sanitiser. Initially he did not have sanitiser in his office, but when people went to his office to tell him they had COVID-19, he got sanitiser for his office.

The University did not have a comprehensive policy on safety and health, as it was being debated. Ms. Apolot Josephine can answer questions on the policy.

AZ

NJR

DM

ml



A-C

There are many labour disputes at the University, including court cases. One of his roles is to sort out the cases.

11 Interview with Labour Relations Officer, Ms. Janet Nabukera

Ms. Janet Nabukera, the Labour Relations Officer started working in that position on 1st July 2014. She served in that position until 8th September 2020, when she was transferred to the School of Law and College of Computer Science, as the College Human Resources Officer. On receipt of the transfer letter, she reported to the principals of the two colleges. She was reporting to the Director Human Resources for five years. A few months ago, she started reporting to the Manager Staff Welfare.

She has a Bachelor of Arts in Arts and a Masters in Human Resources.

Ms. Nabukera handles grievances, staff welfare, University staff associations, Makerere University Academic Staff Association (MUASA) and trade unions. She represents the University in court cases, the district labour office and at Kampala Capital City Authority (KCCA). Ms. Nabukera stands in as a witness on the board, in labour court cases involving staff. She also manages leave schedules for all administrative units, and carries out conflict resolution, guidance and counselling.

She was at home on Saturday 19th September 2020. She dropped her family in Kajjansi and went back home. She woke up at 1:00 a.m. to go to the bathroom and saw Oprah news on her phone reporting a fire at Makerere University. She switched on NTV and watched news of the fire at the Main Building. She sent her husband a message on the fire and also posted a message on a forum.

On Friday 18th September 2020, she went to College of Computer Science (CoCS), the Senate Building for passport size photographs and African Institute for Capacity Building. She had a meeting on the new workstation.

Ms. Nabukera was called to the University on Monday 21st September 2020 about loss of a member of staff. She was to coordinate release of the body.

She also went to the University on Tuesday 22nd September 2020 to meet with the investigation team who were too busy to meet with her.

Ms. Nabukera informed the investigation team that the Manager Transport, technicians and Security guards under the Estates and Works Department retired.

She said power problems at the Main Building were routine. In 2018, there was a case of fire in the ceiling of the Central Registry. She heard about the fire from colleagues. They said wires started burning in the ceiling of the Central Registry.

Old computers in the department were replaced and everyone in her department had a new computer. There were stand fans in the department. She used to pass by the departmental kettle and it looked okay.

Ms. Nabukera said there were many wrangles in the University but they were handled in different fora.

She requested for a transfer from her position. She was not comfortable with the working environment. The staff was against her.

The warden and the Deputy Dean of Students resigned during the COVID-19 lockdown. The Director Legal Services and Director Human Resources also resigned. The Director Human Resources kept his resignation to himself. He did not inform his colleagues. She did not witness a formal handover by the Director of Human Resources. She did not know whether the Director Human Resources has keys to his office because the office was always opened for him.

She had never seen lightning strikes or heard of electric shocks in the Main Building.

M

AZ

NR

Bro

ON

φ

A-G

12 Interview with Electrician, Mr. Babumba Joseph

Two interviews were held with Mr. Babumba Joseph, an electrician working with the Estates and Works Department. The first interview was held on 24th September 2020. Below are details of the first interview.

He has been working at Makerere University for 39 years. He obtained a certificate in electrical installations in 1991.

On Saturday 19th September 2020, he was at home in Kaya. His friend Juma called him and informed him that the Main Building was burning. He went to the University on Monday 21st September 2020 and had not visited the Main Building since then.

Mr. Babumba did not know about the fire incident in 2018. His knowledge of a fire is that a choke was burning and it was replaced by Mr. Sebakakyi, the other electrician.

The roof was replaced and electrical wiring was redone in the Main Building 15 years ago. Wiring in the ceiling was partially in conduit and partially on the surface. Lights were also changed.

Some consumer's units were replaced with CHINT consumer's units two years ago. The Main Circuit Breakers of the CHINT consumer's unit were rated 100 A.

Two years ago, rats ate cables on the first floor of the Main Building. They replaced all the consumer's units on the floors following this incident. Cables were replaced from the first socket affected to the second socket affected.

The main switch was changed from fuses to circuit breakers because the load was increasing.

There are records of requisitions for materials. Mr. Babumba made a requisition when cables were eaten by rats and were being replaced. The records can be found in the stores.

The lighting fittings in the University's Bursar's office and the human resources office were not the same.

Each floor had two main switches, one for sockets and another for lights.

Old wires in the Main Building were pulled out or disconnected completely.

Wiring in the finance office on the ground floor was changed by a contractor. The wiring was done in trunking.

Mr. Babumba did not think the cause of the fire was electrical, given the number of years he has worked at the University.

Electric shocks were experienced when the roof was leaking. After the roof was repaired the electric shocks were not heard of. The leakage was on the top floor. Mr. Babumba worked on earthing, and did bonding. The electric shocks were felt in the area with the leakage. He did not measure the earth resistance after working on the earthing because he did not have an earth resistance meter.

Sockets supplying power to the computers were added to the first floor of the Main Building. Trunking was installed and cables were run from existing sockets through the trunking.

The second interview with Mr. Babumba was conducted on 25th September 2020. Below is a summary of the interview.

Wiring in the Main Building was redone 15 years ago. The wiring on the second floor was changed. Two electricians supervised the works carried out by a contractor. The electrician who supervised the works, Mr. Mukasa passed on, his assistant Mr. Waiswa Grace also passed on. The Main Building had cabling with rubber insulation which was replaced with 2.5 mm² PVC insulated cables. There were also junction boxes in the ceiling which were replaced.

He clarified the issue of cables that were eaten by rats. Only 10 m of cable were eaten and they were replaced. This occurred on the first floor of the Main Building. He said new sockets were installed.

There were fans in the Main Building.

The consumer's units on the second floor were not replaced.

Mr. Babumba insisted that the water pump was for ground floor water tanks and not water tanks on the roof.

Mr. Babumba recanted his statement in the first interview regarded no knowledge of the fire at the Main Building in 2018. He said there was a fire in the Central Registry. The ceiling board caught fire and was replaced by the carpenter.

13 Interview with Messenger, Ms. Nakimuli Miriam

Ms. Nakimuli works in the Human Resources Department making tea, filing, delivering and receiving letters. She started working at the University on 3rd March 1999.

She was at the University on Thursday 17th September 2020, in the evening. Her friend sent her a picture of the Main Building on burning, on Whatsapp media. She went to the University on Monday 21st September 2020. She also saw the news of the fire on Ekyankya on Bukeede TV.

The department had a very old Philips kettle, which was there when she joined the department when she joined the department. She has been working at the department for seven years. In her absence the department staff do not take tea. No one touches the cupboard with the kettle as they respect each other's offices.

There was a time when lights in the department were on but there was no power in the sockets. Estates and Works Department staff rectified the problem. Five years ago, the Estates and Works Department installed a socket for use when boiling tea. The socket was not burnt, it was clean and okay.

She did not experience electric shocks in the office and had not received communication from the cleaners on electric shocks.

She had never seen anyone smoking in the department. It would be very difficult to enter the Main Building with a cigarette as one was checked at the entrance.

Ms. Nakimuli said she is keen and careful and has never forgotten to switch off the kettle and keep it. She said she stops, parks and returns to the University if she forgets to switch off and keep the kettle.

One of her supervisors had a fan. Their offices were like cages and they had many extension cables. She however said the extension cables were of good quality as her boss liked good quality things.

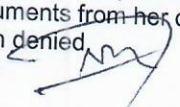
She heard about a fire in the Central Registry.

They had many rats in the department, but the Estates and Works Department worked on that. It is over one and half years since they had rats in the department.

14 Interview with Accountant, Office of University Bursar, Ms. Consolata Komugisha

Ms. Komugisha sat in Room 312 on the first floor of the northern wing of the Main Building.

Ms. Komugisha left the Main Building on Friday 18th September 2020, at 5:00 p.m. She also went to her office on Saturday 19th September 2020. After the fire she first returned to the Main Building on Sunday 20th September 2020, at 8:00 a.m. to pick documents from her office. She was only able to pick documents from her office at 2:00 p.m. on Sunday 19th September 2020, as access to the building had been denied.



Ms. Komugisha had a computer and wall fans in her office. The light in her office was not faulty. The office was partitioned two years ago, and the lights were repositioned. Her fan was about one and a half years old and was plugged into a wall socket. She did not use the fan on Friday 18th September 2020.

She used an extension cable in her office, which she always unplugged after work. She had never seen sparks from the extension cable.

Ms. Komugisha said she unplugged all electrical appliances when she left the office.

She did not have a kettle in her office and would come to work with her tea, or get tea from the tea ladies. She however believes there was a kettle on the floor.

She heard there was sort of a fire in the Central Registry.

She had not heard of electric shocks in the building.

There were no rats in the office.

There were no smokers in the offices.

She had never seen any lights flickering in the Main Building.

15 Interview with Legal Officer, Ms. Naome Kiconco Ocen

Ms. Kiconco has worked with the University Secretary's office since 3rd August 2010. She has occupied her current office since March 2019.

She was not at the University on Saturday 19th September 2020. She had left the University on Friday 18th September 2020, between 3:00 p.m. and 4:00 p.m. She told her boss she was tired and left the office. Ms. Kiconco works from Monday to Friday. The security guards worked throughout the week. If she has extra work to do she goes into office on Saturday or Sunday. Officers have keys to their offices, however there is someone at the main entrance of the building controlling people entering the building.

She first went to the Main Building on Tuesday 22nd September 2020 or Wednesday 23rd September 2020. She could not remember the date of the first time she returned to the Main Building after the fire. She went to the Main Building to pick files with Ms. Annette Nakayofu, the Senior Administrative Assistant of the University Secretary, Ms. Angela Mbirizi, Messenger University Secretary's Office, Ms. Jennifer, the Messenger, Mr. Kagwe, the Driver and Ms. Consolata Komugisha, Accountant Office of University Bursar. They went to the Main Building in the afternoon.

Ms. Kiconco went to the University on Sunday 20th September, but could not access the Main Building. Her thoughts on hearing about the fire was that they were losing the Main Building, Council minutes, files and information on the computers. She thought they could get to the original file on the University land case. She confirmed that they got the file from the building. She had kept away the file in the University Secretary's office.

The computer and light in her office were not faulty. There was no fan in the office. She had an extension cable for the computer.

Ms. Kiconco brought tea to work and when required she would get hot water from what was boiled at the office.

She had not heard of electrical problems in her office. She however heard that there was a fire in the Main Building, but did not know what caused the fire. There were times when there was no power in the Main Building and they would run on generator.

She was hesitant to respond to the question on the possible cause of the fire in the Main Building, but eventually said it could have been caused by sparks.

AZ

NRB

Bm

DN



OKS
AC
TK

16 Interview with Administrative Secretary, Ms. Naome Namuganga Namulasa

Ms. Namuganga started working at the University in 2016. She oversees all activities in the University Bursar's office, i.e. handling petty cash, and receiving and filing documents.

She left office on Friday 18th September 2020, between 6:00 p.m. and 7:00 p.m. She went to the Main Building on Saturday 19th September 2020. She had not been to the Main Building since.

Ms. Namuganga went to the University on Sunday 20th September 2020, at 7:30 a.m. and moved around. She saw her office burning. The most valuable things she lost in her office were financial statements and documents.

Ms. Namuganga had a refrigerator in the office, which she found there on joining the office. They did not leave the refrigerator on when they were not in office. In addition, they did not regularly switch on the refrigerator.

Ms. Namuganga did not lose any petty cash in the fire, as she did not have any money in the office. She however lost receipts.

They had a kettle which was used by the messenger. The kettle was placed on a table.

Ms. Namuganga listed the people on her floor who had been working before the fire, as below.

- Ms. Naome Namuganga Namulasa,
- University Bursar,
- Mr. Serunjonji Abdul Majid,
- Ms. Joyce Ayeko,
- Mr. Buyi Jonathan and
- Mr. Kato Godfrey.

Ms. Kamoga Gladys, one of the secretaries in the University Bursar's office had not been working since March 2020.

Ms. Namuganga said two lights in her office blew and were replaced. The lights were flickering before they were replaced. The cord of the fan in the University Bursar's office was faulty and had not been replaced.

It was a rare occurrence that the Main Building would have power and other surrounding buildings would not have power.

She heard about the fire in the Main Building in 2018. She heard people talking about it.

Ms. Namuganga had four extension cables in her office. The refrigerator, kettle, computers and water dispenser were powered through extension cables. The refrigerator had a fridge guard. The extension cables in her office were the rectangular type. The printer and photocopier in the University Bursar's office were plugged into wall sockets. There was a scanner in Ms. Naome Kiconco Ocen's office that was plugged into a wall socket.

17 Interview with Principal Assistant Bursar, Salaries, Mr. Serunjonji Abdu Majid

Mr. Serunjonji has been working with Makerere University for 20 years. He started working at the University in February 2020.

He was in the Main Building on Friday 18th September 2020, and left at 2:00 p.m. He was in Jinja when he saw news on the fire at the Main Building, at 10:00 a.m. on Sunday 20th September 2020. He did not see the need to go to the Main Building immediately, as he saw on television that the whole office had burnt. His colleagues told him there was no need to go to the office as there was nothing. He went to the University on Wednesday 23rd September 2020.

He lost computers, laptops and car logbooks.

AZ NR DM ON  A-C

Mr. Serunjonji's office had a water dispenser from where they got hot water for tea.

He said since two years ago, only one bulb has been changed in his office. The Estates and Works Department was called and they changed the bulb.

Each person in the office had an extension cable. The office also had a water dispenser and a UPS, both were plugged into a wall socket. The office did not have a microwave.

Regarding the fire incident in 2018, Mr. Serunjonji said they were told the Central Registry caught fire and someone saw it and called the police.

Mr. Serunjonji did not know of any smoker in the building.

He said there was a time when power burnt out the internet switches in the Main Building.

Asked whether there were labour disputes in the University, he said the relationship between MUASA and management was okay and there were no strikes at the University. He however said that they had been requesting for allowances which had not been paid. The University Secretary had asked them to be patient, and they had been having discussions with him.

18 Interview with Senior Administrative Assistant of the University Secretary, Ms. Nakayofu Annette

Ms. Nakayofu has been working at Makerere University since 1995. She started working in the Main Building in 2010. She was on leave the whole of September 2020.

She went the University on Sunday 20th September 2020, at 8:30 a.m. and stood outside the Main Building. Her boss called her at 2:30 p.m. on Monday 21st September 2020 to open the safe. She opened the safe at 5:30 p.m. on the same day. She took somethings out of the safe that were not burnt. There were land titles in the safe.

Her duties are to draft letters for payment and appointments. She also liaises with other University units when requested to by the University Secretary.

Ms. Nakayofu had a kettle, refrigerator, UPS, printer, photocopier and computer in her office. The refrigerator was in good condition. It was an LG brand refrigerator purchased a year ago. The refrigerator and kettle were powered from an extension cable. The University Secretary's office also had an extension cable.

At times the fluorescent lamps in her office would flicker. They had however not had power problems in the office.

They lost communication from the ministries, Council minutes and payment vouchers, in the fire.

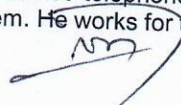
19 Interview with Administrative Assistant, Finance, Mr. Blaise Turyasingura

Mr. Turyasingura is the focal person for the AIMS system controlling all student data. He monitors all revenue run through the system. He started working with Makerere University in 2016, in the Main Building. Mr. Turyasingura has a Bachelor of Science in Information Science and ACCA certification.

He was last in the University on Friday 18th September 2020 at 4:00 p.m. He was addressing problems the students had.

Ms. Betty Aye shares a desk with him, but she has not been at work for two weeks.

Mr. Turyasingura switches off his computer so that no one can log onto his computer. The Directorate of ICT Support has records of logins and out of the server. Mr. Juma, whose telephone numbers are 0702278793 and 0780247887, controls access rights to the AIMS system. He works for the Directorate



AZ NR BM ni (D) A.G

of ICT Support (DICTS). There are levels of access on the AIMS system. Mr. Turyasingura accesses information on revenue.

There were two extension cables in Mr. Turyasingura office.

He took tea from the ground floor.

There was a light in his office with a pull switch that was non-functional. This was reported to the custodian in December 2019, but had not been rectified. As a result, the light in his office was left on permanently. When the switch was pulled, it would click but would not go off. They did not log a written complaint on the light, but told the custodian verbally that the light was not working.

20 Interview with Sergeant No. 3656, Sergeant in Charge Duties, Enuke Justine

Sergeant Enuke said a call came from Command Centre Naguru around 0048 hours reporting a fire in Makerere University. A fire truck commanded by him was dispatched at 0050 hours. On arriving at Makerere University main gate, he saw the flames and called the fire brigade to send as many trucks as possible. He reached the Main Building at 0054 hours. He was coming from Clock Tower. The two windows/floors from the top of the building were on fire, stretching to the other side of the building. He called the fire brigade again requesting for more trucks.

When he reached the Main Building lights at the reception and the ground floor were on.

He did not hear an explosion in the Main Building.

It took 20 minutes to switch off power in the Main Building. The lights were switched off as they were fighting the fire.

The fire was more intense from the back of the Main Building, facing the church, on the topmost floor. The fire was moving from the back side of the building to the front. He thought the fire started at the back side of the Main Building.

They did not cut the padlock to access the printery to switch off power to the Main Building.

They tried to put out the fire from where it started, and knew that the printery would be okay because it had a concrete slab.

Prior to the fire, they had advised Makerere University about fire hydrants, and the University insisted that they had a fire hydrant. On Sunday 20th September 2020, they looked for a fire hydrant and only found one which had not pressure. They were informed that there was a fire hydrant in Wandegaya, but this cannot serve Makerere University. They were also informed that there is a water booster pump in Makerere University. He however said that this booster pump was not on the fire brigade system. Sergeant Enuke said they reported the issue of fire hydrants to the University. There is a report to that effect.

It took six hours to put out the initial fire. They had to bring in more water to mop up. The Vice Chancellor was on the scene. He was telling the fire brigade to try and save the southern wing of the building since the northern wing was gone. The roof started collapsing on the northern wing of the building where the fire started.

21 Interview with Police Constable Kisekya Allan Force No. 67425

Police Constable Kisekya Allan is attached to Old Kampala Police Division. He is resident at Makerere University behind Counselling & Guidance. He is a communicator.

On Saturday 19th September 2020, his coursemate called him to guide her on writing an internship report. At 11:00 p.m., he went to her place at Paradise Hostel to help her. He name is Martha. They are both studying Social Works and Social Administration (SWASA). He left her place at 19 minutes to midnight. He passed the front of the Main Building on the tarmac, and saw smoke coming out of the second window facing the Freedom Square, on the last floor of the building. He went to the main door

NJR

Bm

RN



A-C

of the building to alert the officers. He shouted at the main door for a long time but there seemed to be no one inside. He called OC Station at 12:32 a.m. He also called Sergeant Ojok and told him the Main Building was burning. He also called the Controller on 0800122291 and asked him to send the fire brigade to the Main Building. After the third call, flames were coming out of the third window on the second floor of the building, facing the Freedom Square.

Police Constable Kisekya called Afande Mutumba who said he was in Nateete and would call Major Muhwezi. Major Muhwezi arrived at the scene on a motorcycle. The Chief of Security and the Vice Chancellor also arrived at the scene. There was a lady with them.

The Police Constable went to his home to get his radio for communication. A small fire truck arrived at the scene. It had no crane and did not do much. Later a second fire truck was sent. When he returned to the Main Building, the main door was open.

There was light at the entrance of the building, although he was not observant enough to note whether the lights in the offices of the northern wing of the building were on. He did not hear any noise like an explosion. The security lights were on and lights in the offices of the southern wing were off.

22 Interview with Messenger University Secretary's Office, Ms. Angella Mabirizi

Ms. Angella Mabirizi has worked at the Main Building for three years. Her duties are to receive and record letters received, and receive telephone calls.

Ms. Mabirizi always reports to office at 7:00 a.m. and opens the office. She left the office on Friday 18th September 2020 at 5:00 p.m. She was the last one to leave the office and she locked the door.

Her office had an extension cable, of England type, white in colour. The office also had a refrigerator of LG brand, that had been there for one year.

Staff from Estates and Works Department change lights in the offices. She however could not recall when they last changed lights in the office.

She boiled tea in the office. There was no sink in the office. They got water from outside the office and washed dishes from outside the office.

Ms. Mabirizi said they switch off the refrigerator at night, when leaving the office. By then there is nothing in the refrigerator.

She went to the Main Building at 2:00 a.m. on Sunday 20th September 2020, since she lives behind the University.

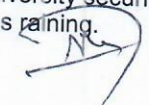
23 Interview with Chief Security Officer Makerere University, SSP Saiga

SSP Saiga joined Makerere University as Chief Security Officer on 28th January 2020. His role is to coordinate security agencies in Makerere University.

SSP Saiga lives behind the library and was at home when he got a telephone call from OC Station, at 12:40 a.m. OC Station informed him that smoke had been seen coming out of the roof of the Main Building. He reached the Main Building in seven minutes. He did not see flames but saw dark smoke coming out of the roof of the Main Building. He called the VC and Deputy VC Finance & Administration.

SSP Saiga saw fire coming out of the roof on the other side of the main building, facing the church.

Major Muhwezi Moses called him and he went over to where he was and talked to him. SSP Saiga asked Major Muhwezi where their guards were. He called operations control and was being asked many questions. He went to the main door of the Main Building and shook the door. He heard movement inside the Main Building, people were coming from the main hall. He met Wankonko the Makerere University security guard who said he was sleeping in the main hall and could hear noise but thought it was raining.



AK

Bro

RN



SAS

AZ

SSP Saiga entered the Main Building and went up to the second floor. The fire was raging on the second floor. The wind was blowing the fire towards the staircase. Power was on in the southern wing of the building, but there was no power in the northern wing.

SSP Saiga told the fire fighters to continue fighting the fire and stop it from crossing to the southern wing of the building. The fire fighters said they did not have the capacity to fight fire on both sides of the building and sought guidance from SSP Saiga. The fire trucks they had did not have the capacity to fight the fire on the second floor. They connected hoses through the corridors up to the second floor. The fire brigade had reached the scene at 1:10 a.m. At that time the fire had started raging on the first floor.

As they were connecting the hose pipes, the fire brigade asked SSP Saiga if power to the building had been switched off. SSP Saiga said the padlock on the printery door where the power room is located was broken, but the door was locked from the inside and they could not access the printery room. Someone switched off the power. SSP Saiga said the raging of the fire appeared to reduce.

The fire brigade ran out of water.

SSP Saiga said that when he first went to the building, lights in the offices and the centre staircase were on. When power was switched off the whole place became dark.

The police fought the fire and seemed to have contained it, almost up to the tower. The fire was however moving to the roof.

Ms. Consolata Komugisha's office, the Accountant, Office of University Bursar got burnt at 5:00 a.m. SSP Saiga entered the University Secretary's office before it got burnt. At that time the fire had burnt the salaries office and the University Bursar's office. Smoke was entering Ms. Komugisha's office and the University Bursar's office. They thought the fire would not go through the brick wall and that it would be contained. This was at around 3:00 a.m.

SSP Saiga said by 4:00 a.m. the fire had been put out and the University Secretary's office was intact. The fire brigade then left the Main Building. SSP Saiga noted that smoke was building up in the Main Building and informed the fire brigade. The fire brigade told him that it was heat in the walls causing the smoke build up. SSP Saiga saw a lot of smoke from the Legal Officer's office. He called the VC, the University Secretary and the fire brigade. Five minutes later he saw fire coming out of the Legal Officer's office. The fire brigade responded 20 minutes after the call was made, but the fire had already burnt the University Secretary's Office. This was at 5:00 a.m. The roof of the northern wing had collapsed by 3:00 a.m.

The fire brigade fought and contained the fire in the University Secretary's office for one hour. They were spraying water towards one window that was burning. This was the window of the Legal Officer's office.

On Sunday 20th September 2020, at 11:00 a.m., items were removed from the VC's and DVC's offices and from some other offices that were not burnt. Remnants of fire were noted in the corner of the building at the Human Resources office. ISO called SSP Saiga and informed him about the remnants of fire. Fire brigade poured a lot of water in the building to ensure there was no more fire.

At 7:00 p.m. on Sunday 20th September 2002 smoke was seen coming out of the building. SSP Saiga thought there could be remnants of fire. He went to pray, but before he could finish praying, he received a telephone call from Afande telling him there was fire in the Main Building. He called the fire brigade. There were flames coming out of the window near the VC's office. The fire brigade took 30 to 40 minutes to reach the Main Building. They put out the fire which had reached the Council Room. SSP Saiga said the fire started in the Council Room. It was agreed that the fire truck should be stationed at the Main Building.

24 Interview with Accountant Salaries, Mr. Kato Godfrey

Mr. Kato Godfrey is an accountant under the salaries section of the Finance Department. He started worked at the University in the Main Building in his vacation in 1984. He returned to the University in

AZ

NR

BR

RN



1993 working as an accountant in the Finance Department. Thursday 17th September 2020 was the last time he was in the Main Building. He does not work at the University throughout the week because of the cost of coming to the University. He left the University at around 5:00 p.m.

There was a light in his office which was constantly on because they did not know the location of the light switch. They thus always left the light on. He did not know whether the custodian switched off the light.

There was surface wiring along the skirting in his office. They also had extension cables in the office. The cable from his UPS was plugged into an extension cable. His phone charger was also plugged into an extension cable.

There was a printer in his office connected to his colleague, Ms. Joyce Ayoko's computer. There was no refrigerator in the office.

There was a kettle in his office and the socket used by the kettle was up on the wall. The wiring in his office was very old. He had however never seen sparks in the wiring.

Mr. Kato had a stand fan in his office but it was non-functional. He however said they did not use fans in the office because fans raised dust from the floor.

25 Interview with Personal Assistant to Vice Chancellor Makerere University, Mr. Gordon Murangira

Mr. Gordon Murangira is the Personal Assistant to the VC, a position he has served in for the last three years. He started working at Makerere University in 2003. His appointment at the University is Principal Registrar.

He worked the whole day on Friday 18th September 2020 and left shortly after 5:00 p.m.

He was not feeling well on Saturday 19th September 2020 and stayed home. He went for a medical check-up at 3:00 p.m. on Saturday 19th September 2020. He went to bed at 11:00 p.m. that night.

He got a telephone call at 12:58 a.m., from the Ag. DVC Finance & Administration, informing him that there was a fire at Makerere University, and that he should go to the Main Building. He was at the Main Building by 1:00 a.m. A few minutes after his arrival, the fire trucks arrived.

The fire was on the second floor. He went to the back of the Main Building, i.e. the side of St. Augustine Church. At that time the fire had not gone through the roof. The office of the PRO and the lobby in front of her office were on fire. The staircase and the ICT office in the northern wing of the first floor were lit. The fire was raging in the PRO's and neighbouring offices and in the lobby of the offices. The fire progressed towards the wooden staircase, kept burning and could be seen through the wooden staircase. The fire progressed and burnt all these areas, and started moving downwards as Mr. Mulangira was watching.

The fire brigade had small trucks that could not pump water inside the building. There was a challenge with access to the building. It was suggested to the fire brigade that they run the concrete ballasts over to access the building. Discussions were being held on how the fire brigade could get closer to the building. During this time lights were on in the Main Building. Mr. Mulangira called the custodian to ask him where the main switch of the building was located, but Mr. Mulangira hang up the phone before he could get a response. The police officers got pliers and cut the padlocks of the printery. The fire brigade said they could not pump water into the building before switching off the power. This was at about 1:20 a.m. They realised the printery door had been locked from the inside. They decided to switch off power from the feeder pillar. Mr. Mulangira estimated that power was switched off a few minutes past 2:00 a.m. The pictures of the fire on his phone were checked by the investigation team. At 1:10 a.m., 1:17 a.m. and 1:24 a.m. lights in the Main Building were on. The fire had consumed the entire roof of the Main Building and the roof was beginning to cave in. The lights were still on. A picture on Mr. Mulangira's phone shows that lights in the building were off at 1:35 a.m. By that time the roof above the PRO's office had caved in. The fire continued to consume the rest of the roof towards the tower. The office lights in the southern wing of the building were not on by this time.

AZ

NR

Bm

nd



A-G

At 1:30 a.m., the fire progressed to the tower and was also moving towards Mr. Mulangira's office. He wanted to pick valuable things from his office so he went home for his car. He returned to the Main Building with his car and went to his office. There was intense heat in his office and the timber was making cracking sounds. At around 2:00 a.m. he picked artefacts from his office. He insisted on going to the Council Room when the custodian arrived. He had to run to the staircase to catch his breath and back into the Council Room to open windows.

Hot water was dripping onto the floor, He went to the VC's office, opened windows and started ferrying things from the office, following which he ferried things from his office. This was at around 3:00 a.m. He picked things from the office and took them to his car. Some people helped him to carry things. He left the Main Building at 6:30 a.m. By the time he started picking things from his office, the fire had crossed from the northern wing of the building to the southern wing, through the back of the building. Mr. Mulangira said the fire passed behind the tower. There was every indication that their offices were going to burn. Some of the things he picked from his office were wet. There was no server in the VCs office. He picked monitors and CPUs from the office. The cables were picked from the office at 1:00 p.m. on Sunday 20th September 2020.

Mr. Mulangira removed things from the Council Room later in the day.

The Council Room was opened at around 1:00 p.m. on Sunday 20th September 2020. The people he was with when the Council Room was opened refused to enter the Council Room. The custodian had keys to the Council Room but failed to open it. Mr. Mulangira twisted the door and opened the room. A thick cloud of smoke came out of the room when the door was opened. The room was extremely hot and one could not see anything inside the room. The fluorescent lamps in the room had popped out of the slab.

Mr. Mulangira said there was insufficient manpower to man the fire trucks. An officer pumped a whole truck of water on the floor. Mr. Mulangira asked the officer to pump the water to where the fire was coming from, but the officer told him he does not take orders from him, and that he was not his commanding officer. Mr. Mulangira reported the officer to the Chief Security Officer, Makerere University, but also felt sorry for the office because he was there alone.

Mr. Mulangira said the fire started in the PRO's office because even with the windows closed or open, one could tell there was a fire in the office. He said he could not tell what started the fire but was sure it started from the PRO's office because of what he saw that morning.

Mr. Mulangira believes the fire could have been put out by 3:00 a.m. or 4:00 a.m. and could have been prevented from reaching the tower. He witnessed time wasting and debate on where to get water from. He even suggested to the fire brigade that they should drain the swimming pool for water.

Mr. Mulangira posted a live video on Makerere University facebook account starting at 1:30 a.m.

Mr. Mulangira said the accountants below returned to the Main Building after 6:00 p.m. on Saturday 19th September 2020.

- a) Mr. Moses Mujuni.
- b) Mr. Lubowa from the Finance Department.
- c) Mr. Julies from the Human Resources office
- d) Ms. Claire for the Finance Department.
- e) Ms. Florence from the Finance Department.
- f) Mr. Bukenya from the Finance Department.

26 Interview with Vice Chancellor Makerere University, Prof. Barnabas Nawangwe

Prof. Nawangwe received a telephone call from the Chief Security Officer, Makerere University, on Sunday 20th September at 1:00 a.m. The Chief Security Officer told him the Main Building was on fire. When Prof. Nawangwe arrived at the main building, the Chief Security Officer was there with two policemen. These were the only people at the Main Building at that time. The fire was still small. Prof. Nawangwe said the fire started in the ceiling of the second floor, which is the level of the Public Relations

Officer (PRO's) office. He was informed that some policemen saw smoke coming out of the Main Building and called the Officer in Charge (OC) Station. The OC Station had been deployed to Nateete, so they called the Chief Security Officer, who in turn called Central Police Station (CPS). Central Police Station called the fire brigade.

A minute after Prof. Nawangwe's arrival, the fire started coming out of the roof. This was mainly coming out at the front of the building. Prof. Nawangwe said he reached the Main Building at 1:05 a.m. and at 1:10 a.m. the fire truck arrived.

The fire was burning the Main Building and the fire brigade were fidgeting. They came to the scene unprepared with an old truck. They started pumping water to the building and it was being wasted, as they were directing the water to the window. The fire brigade was pointing the hose to the front of the building and fire was raging at the back of the building.

A second similar fire truck arrived, which tried to go to the back of the building through the Faculty of Agriculture side. The second fire truck did not pour water onto the building.

A third fire truck that had a crane was sent. The third fire truck poured water through the roof, but by then the roof was collapsing.

The fire spread because the ceiling of the Main Building was wooden. The Main Building was built in the second world war and most materials were imported from Europe, however the timber was manufactured in Uganda. The fire started in an area that was vulnerable. The main hall was not touched because there is a buffer in between. The main hall was originally a banquet hall for expatriate staff. The roof fell on timber and encountered a void. The whole thing then collapsed.

Prof. Nawangwe emphasised that it must have taken an hour before the fire brigade trucks arrived, and by then the fire had destroyed the offices and was spreading to the tower. If the second and third trucks had come earlier and directed jets of water towards the fire, the Main Building could have been saved.

The fire brigade sent a weak vehicle. They said the strong vehicle could not pass over the grass, meanwhile the fire spread to the other side of the Main Building. When the fire brigade sent a strong vehicle, they did not know how to use it. The vehicle was computerised and they struggled with it for 30 minutes.

The fire brigade almost put out the fire, according to Prof. Nawangwe. At that time the fire had not reached the Central Registry. The fire brigade ran out of water and went to get more water. By the time the fire brigade returned, the Central Registry had burned. The fire brigade put out the fire, but Prof. Nawangwe said that he kept seeing smoke and told them there was still fire. The fire brigade however told him that it was just smoke coming out of the building. The group and the fire brigade then left the Main Building and Prof. Nawangwe went home.

People were saying the fire started in the Finance Department, but he did not believe this to be the case. He said that if the fire started in the Finance Department it would have passed through the windows of the Finance Department.

His first assumption on the cause of the fire was that since it was an old building, it had old wires. Two years ago, there was a fire in the ceiling of the Central Registry. Since people were working in the office at that time, the fire was put out.

There was also a fire a few years ago in the Finance Department, caused by an electrical fault.

Prof. Nawangwe was told by someone who used to work in the Main Building, and retired 7 to 10 years ago, that initially the whole top floor was open space. The open space was partitioned during the war for a school for expatriate children. After the children left, the partitioned rooms were used as offices. Since these partitions were an afterthought, wires were run on the surface. There was no conduit. All this was done in the 1970s. The roof of the building was always full of rodents.

The fire trucks that arrived at the scene were weak and were therefore pushing water through the windows instead of the roof.

Prof. Nawangwe was convinced that the fire started in the PRO's office because the first people on the scene saw smoke coming out of the roof and not the windows. He said the fire started in the ceiling and when the roof came down it burnt everything. The investigation team reminded him that Galvanised Iron (GI) sheets were installed on the roof and, inquired how the fire moved rapidly from the ceiling to the roof, given the GI sheets. Prof. Nawangwe pointed out that there was a ceiling, trusses and then the GI sheets.

He explained to the investigation team the structure of the northern wing of the Main Building. There were timber decks, timber staircases and timber partitions in the Main Building. The timber deck started at the end of the concrete. There was a ground, floor, two mezzanine floors and the top floor. The floor levels in the northern wing of the building were not the same as those in the southern wing of the building, except for the top floor of the building. The difference in level between the northern wing and the southern wing of the building at the top floor, was just a few steps. There were two mezzanine floors below the top floor, arranged around a void.

The key issue in the Main Building was old wiring. The Estates and Works Department had always pointed out the old wiring. They have old staff houses and old halls of residence. There were several such buildings. The investigation team's report will help the University to overhaul the structures.

Water reticulation was a problem. The fire brigade asked for a fire hydrant and he asked the University security for the location of a fire hydrant but they did not know. Someone who had previously worked at the University informed them that there was a fire hydrant at the Estates and Works Department.

The Capital Expenditure and maintenance budgets of the University were outside their control. They were negotiating for a loan to be taken by the Government on behalf of Makerere University. The Estates and Works Department estimate that they require UGX 60 billion to overhaul the infrastructure. The Estates and Works Department receives UGX 150 million annually from the ministry for maintenance. One cannot move a shilling from one budget line to another. Maintenance is the last priority at the University. The first is staff, second is students and the third teaching material.

The University had been going through staff restructuring. People do not understand that the Estates and Works Department cannot do their work without personnel. The plan for the Estates and Works Department is to keep a lean staff of high level architects and engineers, and outsource maintenance work. The University has framework contracts with people who come in to do maintenance. The Estates and Works Department then keeps a lean structure. They advertised for an electrical engineer and architect, but the University pays too little to attract good candidates for these positions.

Prof. Nawangwe said they have to do their best to keep the University open, given the mix of old and new buildings. The investigation team's report should highlight the state of infrastructure at the University.

Prof. Nawangwe was convinced that the fire was an electric one. He was asked whether he could rule out other causes. He pointed out that the investigation team consisted of a forensics team which should rule out other causes. He was asked if he was sure there was no one in the ceiling who could have started the fire. Prof. Nawangwe responded that there was no evidence of someone coming out of the building at that time, despite the rumour of ten men dressed in black seen at the building and someone seen coming out of the building. He said when the fire started the Main Building was locked and it took a few minutes to wake people in the Main Building, unless someone hid in the ceiling of the PRO's office, started the fire and went out through the window.

The investigation team informed the Prof. Nawangwe that they had interviewed many people from the Estates and Works Department and none of them think the fire was an electrical one. Prof. Nawangwe said people from the Estates and Works Department would not say it was an electric fire because they work in the Estates and Works Department. The electrical problem has been in existence and there have been other incidents. They have reported the status of the electrical wiring. He believed maintenance was better in 2006 when the University had money from private students and could determine how to use it. When the University was required to contribute to the wage bill, maintenance started suffering. The exercise of evaluating the infrastructure began after 2006. The colleges that made the money kept the money.

NR

BRM

RN



A-G
LWZ

AT

Prof. Nawangwe said the Main Building had fire fighting equipment, i.e. fire extinguishers and hose reels. Since the fire was in the ceiling, the fire fighting equipment became useless.

He said the fire brigade did not understand the magnitude of the problem. The fire truck that was sent first was bought in 1992. The good fire trucks came after the first truck. The fire brigade's planning was poor. The fire brigade has two good trucks. They should understand the city. He said that someone in Council was informed that the whole city has 19 fire hydrants. There is a fire hydrant near the Estates and Works Department that is buried in the soil. There is also a fire hydrant at Wandegeya market that has never been connected to the water mains. The next nearest fire hydrant is at Nakulabye. The capacity of the fire brigade has been maintained from when the city was smaller.

The fire truck operators were fidgeting with the crane. It seemed they had not used the crane for some time. He pointed out the lack of training and poor attitude of fire brigade staff. One of the officers was asked to go into the building and fight the fire and he responded that who would want to go in and die.

Prof. Nawangwe said that drills had been conducted by the anti-riot police but not the fire brigade. He said the last time he saw a fire drill conducted by the fire brigade was when he was at the College of Engineering, Design, Art and Technology (CEDAT), which was 10 years ago.

Prof. Nawangwe said they were always aware there could be a fire and ensured the carbondioxide fire extinguishers were serviced. They also made sure there was water for the hose reels. The Main Building has water tanks. The University did everything in their capacity to prepare the building to fight a localised fire.

They have the right people but do not have the right resources to do their work. They are all working in conditions that could be much better, but they do not have resources to make them better. They should work for minimum safety. They did what they could to make the building safe. Prof. Nawangwe said the state of buildings is a national problem and asked whether they should close all schools and universities.

Prof. Nawangwe was asked about the CCTV cameras in the Main Building that were non-functional. He said the report they had was that the cameras were functional, there was footage but it was unclear. He got a report from the Inspector General of Government (IGG) saying there was CCTV footage from the cameras but the images were unclear.

The investigation team informed Prof. Nawangwe that the in-charge server communicated to the Director that the cameras in the Main Building were non-functional. The in-charge server's team went to the University and checked the CCTV cameras and found that information on the cameras was from last year. The police cameras from which CCTV footage on the fire was obtained were from the side of the Main Building and from St. Augustine Chapel. Prof. Nawangwe repeated that he had a report from the IGG stating that the cameras are functional but the footage was unclear. He requested the police to confirm this with the Chief Security Officer, Makerere University. The police responded that they had a report from the Chief Security Officer, Makerere University, stating that the cameras were struck by lightning. The report was written to the University.

After the interview, Prof. Nawangwe checked the information he had on functionality of the CCTV cameras in the Main Building and informed the Lead Investigator that the CCTV cameras were non-functional at the time of the fire.

27 Interview with Electricians, Mr. Kato Lazarus, Mr. Paul Sebakakyi and Mr. Babumba Joseph

The three electricians, Mr. Kato Lazarus, Mr. Paul Sebakakyi and Mr. Babumba Joseph were interviewed jointly by the investigation team to gain a better understanding of the state of electrical installations in the building. The investigation team read out the records of repairs done on the Main Building, and requested the electricians for clarification. The electricians said they did not remember most of the repairs read out.

The investigation team asked the electricians why Bajaj lighting fittings were initially installed to replace the Philips magnetic ballast fittings, and then in 2019 the Bajaj fittings were replaced. Mr. Paul

A7

192

Bm

BN

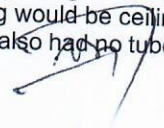


A. G

Sebakakyi said the Bajaj lighting fittings had electronic ballasts. Mr. Babumba said he remembered the Bajaj lighting fittings being replaced in some offices. He said the problem with the Bajaj lighting fittings is that they were not 4 feet but smaller.

The electricians said that some lighting fittings were mounted on the surface of the timber ceiling and others were suspended from the ceiling. This was because some ceilings were low and lights could not be suspended from them, hence the lighting fittings were ceiling mounted.

The investigation team wanted to know what the electricians would do if the light that was being replaced was not the same size as the one replacing it. The electricians said that the lighting fitting would be replaced and the suspension wire would be left hanging. If possible, the lighting fitting would be ceiling mounted. The users also preferred lighting from the fittings previously installed. They also had no tubes and no spares for the Bajaj fittings.



nr

AZ

Bm

DN

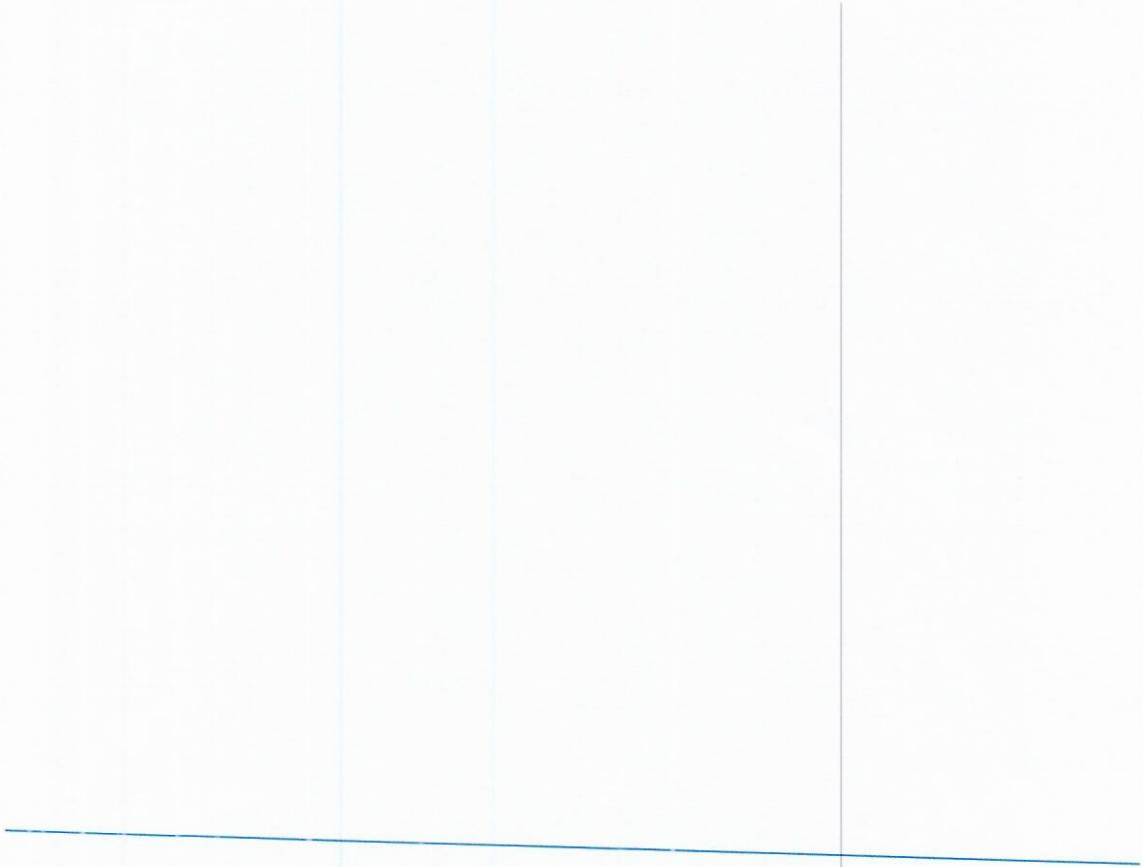


A.G

10

Annex 3: Sketch of Power Supply Schematic of Makerere University Main Building

[Handwritten signature]



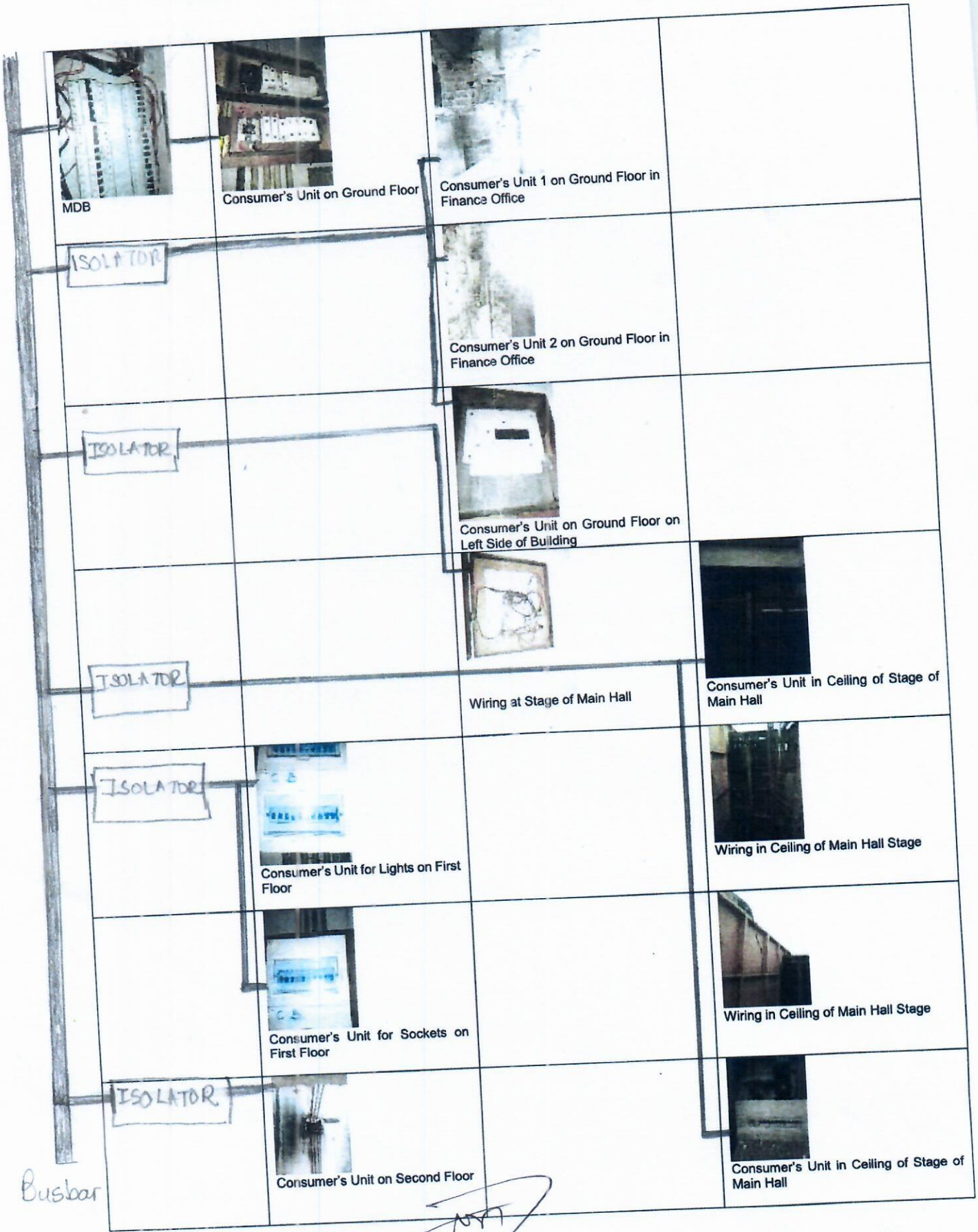
nrk

Bm

DN

[Handwritten signature]

A-G



MDB

Consumer's Unit on Ground Floor

Consumer's Unit 1 on Ground Floor in Finance Office

ISOLATOR

Consumer's Unit 2 on Ground Floor in Finance Office

ISOLATOR

Consumer's Unit on Ground Floor on Left Side of Building

ISOLATOR

Wiring at Stage of Main Hall

Consumer's Unit in Ceiling of Stage of Main Hall

ISOLATOR

Consumer's Unit for Lights on First Floor

Wiring in Ceiling of Main Hall Stage

Consumer's Unit for Sockets on First Floor

Wiring in Ceiling of Main Hall Stage

ISOLATOR

Consumer's Unit on Second Floor

Consumer's Unit in Ceiling of Stage of Main Hall

Busbar

Handwritten signature or initials



UGANDA NATIONAL BUREAU OF STANDARDS

01/2020/123

Headquarters
Plot 2 - 12, Bypass Link,
Bweyogerere Industrial &
Business Park,
P.O. Box 6329 Kampala
Web: www.unbs.go.ug

Telephone: +256 417 333250
+256 417 333251
+256 417 333252
Telefax: +256 414 286123
Helpline: 0600 133133

BO/SDV/178

05th October, 2020

The Executive Secretary,
National Building Review Board,
P.O Box 7349,
Kampala.

Jerome
Please note & discuss
with the investigation
team prior to our response
Oct 6, 2020

Dear Madam,

RE: FIRE ACCIDENT AT MAKERERE UNIVERSITY KAMPALA - REQUEST FOR ELECTRICAL LABORATORY TESTING

Uganda National Bureau of Standards (UNBS) acknowledges receipt of your letter dated 30th September 2020, on the above mentioned subject.

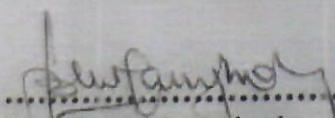
We have reviewed your request and our response is as follows:

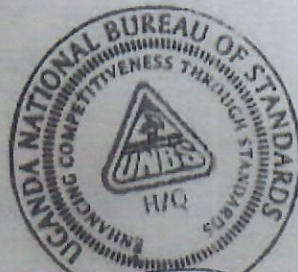
1. UNBS Electrical Testing Laboratory does not have the capacity to test fluorescent lamps and their respective lamp holders; consumer units and fuse wires.
2. Capacity is however available for the testing of cables. The testing capacity with reference to describing the condition of the cable (degradation or burning of the insulation) and determining insulation resistance will depend on the cable design and its current condition.

We look forward to being of assistance in the implementation of standards in the building sector.

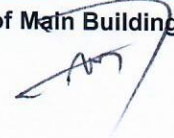
Yours faithfully,

UGANDA NATIONAL BUREAU OF STANDARDS


.....
Dr. Ben Manyindo
EXECUTIVE DIRECTOR



Annex 5: Sketch of Electrical Equipment in Offices on First Floor of Main Building

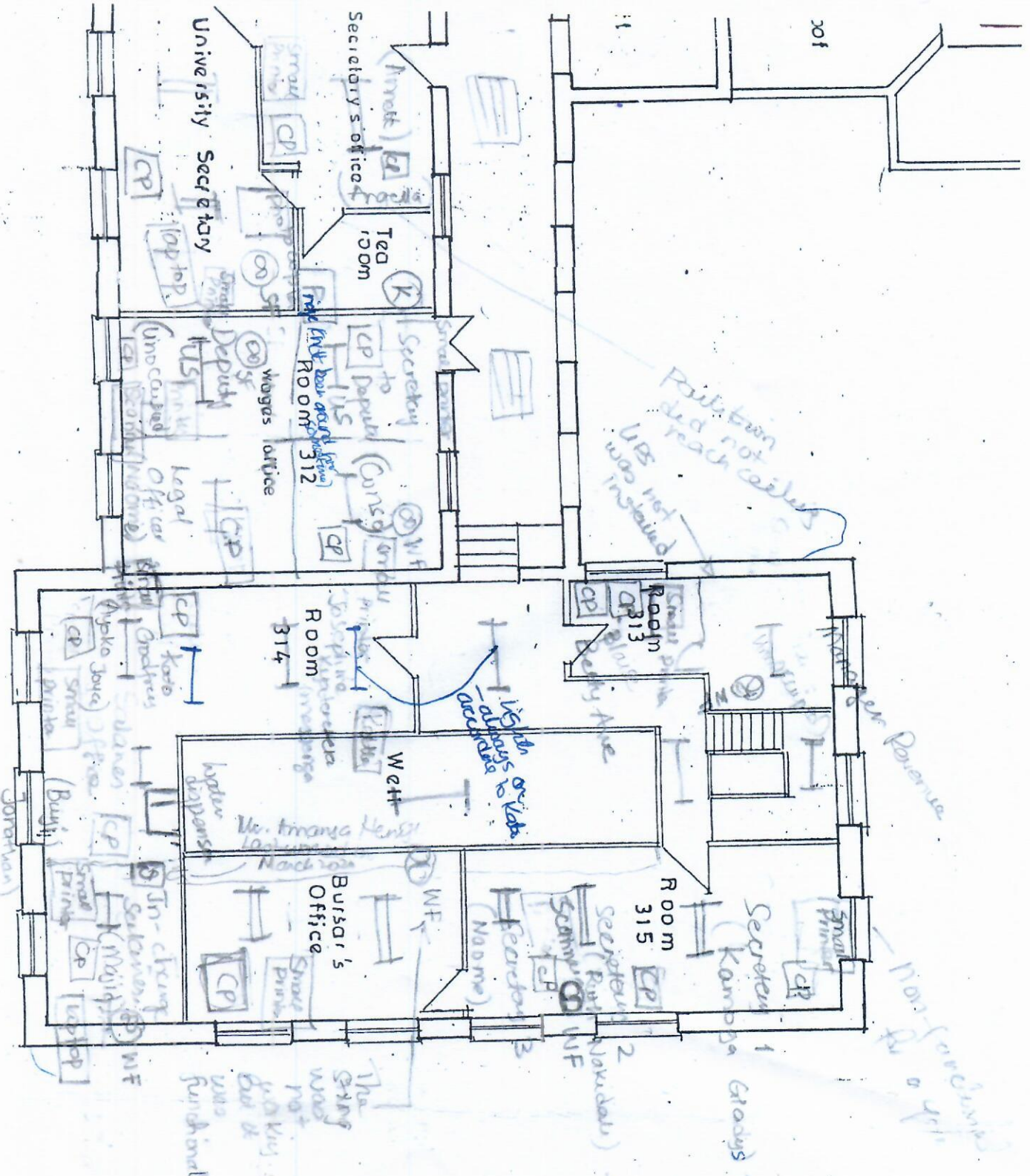


NR

hm



SKS
A.O
10/11



Paintwork did not reach ceiling
 UBs not installed

Water see Review

Not finished for a year

Have not come to office since lockdown

- Legend
- CP Computer
 - Laptop Laptop
 - 600 X 600mm Fluorescent lighting fitting
 - F Refrigerator
 - K Kettle
 - 1200mm single batter Fluorescent fitting
 - 1000mm twin batter Fluorescent fitting
 - SF Stair Fan
 - WF Wall Fan
 - Small Printer
 - Small Printer

[Handwritten signature]