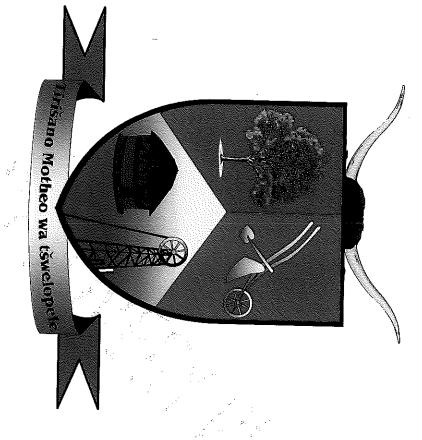
FETAKGOMO LOCAL MUNICIPALITY



Council Resolution No. C13/2014

DISASTER RECOVERY PLAN



Overview

any other physical asset or intellectual property owned and produced by the municipality. All operations are extremely time-dependent and even if the municipality looses one hour of productivity it may affect the organization. operate effectively and efficiently. Information is therefore a valuable asset to the municipality as Fetakgomo local municipality dependent on information and communication technology to

term power outages or disk drive failures to severe disruptions such as the destruction of equipment or fires IT systems are vulnerable to a variety of disruptions ranging from mild disruption such as short-

service unavailability by focusing on effective and efficient recovery solutions. solution as part of the municipality's risk management effort. It is however virtually impossible to complete eliminate all risks. Contingency planning is designed to mitigate the risk of system and Vulnerabilities may be minimized or eliminated through technical, managerial or operational

It is vital for the municipality to have a proper disaster recovery plan in place

may hamper the goal of the municipality of providing efficient and effective services to the South African public and specifically the people of Fetakgomo. information and systems. The IT function of the Fetakgomo local municipality is focused on ensuring that vital assets are restored to working order as quick as possible as failing to do so whether storm, fire, natural disasters or malicious attacks intending to destroy organizational as close to it as possible) in the event of a disaster occurring as a result of whatever cause necessary actions required to ensure that it will be able to resume normal business function (or This disaster recovery plan outlines the nature and location of municipal systems and the

maintaining business continuity and that best meet the needs of the government. international standards and corporate governance regulatory requirements for developing and It is therefore the intention of the municipality to comply with industry best practices

2. Scope

applicable to their respective areas. of municipal business processes and had formal training in the various computing disciplines recovery objectives. It assumes that recovery team participants have a reasonable knowledge This plan will guide the municipality through the many activities associated with achieving its

business processes This plan covers recovery of the following business processes and systems supporting those

2.1 Business Processes

mana	of Thu	sports	mana	Community services Comm	Critical Processes Critic
management and environmental management,	of Thusong services centers, traffic	sports, arts and culture issues, administration	management, environmental management,	Community services is responsible for disaster Priority two	Critical scenarios
		-		Priority two	Priority

Priority one	the division monitors the different budgets for the municipality and they use the Munsoft system to manage and control the budgets. Without the application, the processes shall	pudger
	Munsoft for printing of orders. For supply chain life without their system will be difficult to accurately report on their activities	
Priority one	supply chain management is responsible for purchasing of stock logistics, and asset management. The unit uses BAUD for asset management cash focus for payments and	Supply Chain Management
	collects money from renting the halls, the BnB, buying of tender documents and car licenses. If the Fetakgomo local municipality is unable to manage revenue, it might be exposed to financial loss due to leakage expenditure.	
Priority one	structured revenue base or a billing system. Potential revenue from service charges for things like water and electricity is also possible because the Municipality does not perform	Expenditure
	management, ward committee support, council support and fleet management of the municipality. If the disaster hits the municipality information around fleet and records might be lost. The municipality information around fleet and records might be lost. The municipality can be subjected to litigation due to the municipality been unable to produce required documentation and it may also to audit quiries.	
Priority one	The administration unit is responsible for switch	Administration
Priority one	Human resource has the responsibility to develop Employment Equity Plan and Job descriptions of the municipal employees. They also need to recruitment personnel on behalf of the municipality. Ensure that there is a fair and equitable system to deal with grievance performance Management. They form critical part of the municipality as they deal with human elements of the municipality.	Human Kesource
Priority one	The office of the mayor has programmes to support Women, elderly, disability and youth. They also provide political support to the councillors.	Mayor's office
	the information derived from this unit forms the integral part of the municipality. Without the information informed decisions won't be made by the municipality.	

	in all the system of the municipality.	
	risk management and insure the good control	•
Priority two	The internal audit is responsible to governance,	Internal Auditing
	contracts enforcement action plan	
	advices to the municipality. To also facilitate	-
•	contracts, litigations and providing legal	
Priority two	The division is responsible for drafting of	Legal Services
9.7	be kept in the safe place for future references.	
ie.	component of the municipality, records need to	
	application and consolidation. This is a critical	
	Rezoning, town planning application, land use	
Priority three	The section is responsible for the Land use,	Town planning
	youth	
	and entrepreneurial training provided to the	
u ^{† ĝr}	municipality to track number of jobs, SMMEs,	•
	and recorded it will be difficult for the	
•	jobs and if LED's performance is not monitored	
Priority two	One of the KPAs of the municipality is to create	LED
_	programmes.	
	can monitor the progress of the different	
•	of programmes is depended on how the unit	
Priority three	IDP, Programmes are managed and operated	DP
	stand still.	

2.2 IT Systems

This DR plan caters for the following municipality servers/applications only:

Fetakgomo		Fetakgomo	Fetakgomo		Fetakgomo		and Transport	Department of Road	Hosted at the	provider	Hosted at service		Fetakgomo		Fetakgomo		Server Room Location
AntivirusSVR		MailSRV	FileSRV		No server	Transport	of Road and	Department	Hosted at the		No server			provider	With service	Server Name	Primary
Proxy	Server	Exchange	Main domain		No server	Transport	of Road and	Department	Hosted at the		No server	provider	With service	provider	With service	Server Name	Secondary
Proxy		Exchange	File Server	Retention	Record			registration	Vehicle	•	Cash Focus		VIP		Munsoft	Name	Package
One		One	Three		Three				One		Four		Three		One		Priority

က Benefits

Developing a disaster recovery plan will;

- Provide the municipality with a sense of security;
- Minimize the risk of delays;
- (a) (c) (b) (a) Guarantee reliable of standby systems;
 - Provide a standard for testing the plan;
- Minimize necessary decision-making during a disaster,
- Ĵ Establish a DR team to manage disaster,
- major disruptions or disasters; Coordinate recoveries, ensure business continuity and protect municipal systems from
- 巴 computer room or on the network affecting municipal systems; Address the recovery of resources, products and services following a disaster within the
- Ü operations and the controls that can be implemented to reduce the impact. systems and the damage from such events, the time scale needed to restore normal Determine the events that can adversely affect the effective functioning of municipal

Developing a disaster recovery plan

4.1 Planning areas

Various scenarios that forms the basis of the plan was considered and a multitude of assumptions were made in the process.

The key principles that plan applies to are;

- Critical unrecoverable hardware failures such as servers or switches
- operational functions; becoming inaccessible preventing the municipality form performing its normal Any computer room facilities, servers or business processes as listed in section
- C critical system functionality during an emergency that prevents access to any of the regional systems or servers. A predetermined disaster recovery site and IT resources that will be used to recover

4.2 Sections of the plan

The DRP consists of four (4) main sections that are divided into subsections. Those are

- DRP ownership, change and version control;
- The DRP strategy;
- The disaster recovery process; and
- the alert phase;
- ii) the recovery phase; andiii) the return to normal phase
- Annexures

4.30wnership, change and version control

Designated plan owner

strategy is adopted. own designated owner. The owner of the plan is IT management in the corporate services business unit of the municipality. The DRP owner has to ensure that the correct recovery The DRP forms part of the overall municipal business continuity plan, but each DRP still has its

<u>Q</u> The Fetakgomo local municipality management takes overall responsibility for the plan in terms

- Maintaining the plan e.g. regular updates that accurately reflect changes in the production environment should be done on at least a monthly basis;
- ಕಲಕ Scheduled recovery tests that include specific recovery objectives for each test;
- Correct and up-to date technical procedures;
- Ensuring that the plan is reviewed when there are;
- i) additions, deletions or upgrades to hardware platforms;
- ii) additions, deletions or upgrades to system software
- iii) changes to system configuration;
- iv) changes to application software;
- v) changes that affects the availability of the disaster recovery facility:
- vi) changes to staff identified by name in the plan;
- vii) changes to off-site backup procedures;
- viii) changes to application backups, and
- changes to vendor lists maintained in the plan

4.3.2 Access to and users of the plan

system). Note that all printed copies of the plan, except the PDF master copy, are uncontrolled soft copy of the plan will be kept on the municipal governance system (document management and yet another copy will be stored in a sandbox at a pre-determined disaster recovery site. A security reasons and the other copy will be kept by the designated disaster recovery coordinator The plan contains confidential information. Uncontrolled access to the plan may lead to security breaches and business risks. A signed hard copy will be kept by the municipal manager for

level overview of the plan will be made available for general perusal. active role in the recovery process. In terms of awareness to the rest of the organization, a high-The plan and its contents would only be accessibility to municipal staff member that play an

4.3.3 Management signoff of the plan

contained in the plan. Lack of managerial commitment may lead to recovery failure and ultimately a business risk. The office of the Municipal Manager needs to take ultimate accountability for the information

Table 1: Accountable managers

	Marome P.O.S		Tilastia W.I		Maicul Wi.T		Widthialia IV.D	Mati mana N D	Name
	IT Manager	Services	Director Corporate	7	Chief Financial Officer 0	OF: 12	Municipal Manager		Designation
	015 622 8094		015 622 8014		015 622 8006		015 622 8001		Work Tel
0.000	076 268 3896		082 820 4996	07.00	084 411 5706	07 - 702 72	071 460 1401	Cell Hullingel	Colleges

4.3.4 Version and change control of the plan

affect the plan fall into several categories. Those categories are; It is inevitable in the changing environment of the IT industry that this disaster recovery plan will become outdated and unusable unless someone keeps it up to date. Changes that will likely

- Hardware changes;
- <u>, 5 a</u> Software changes;
- මට Facility changes;
- Procedural changes; and
- Personnel changes

common changes that will require plan maintenance are listed in above. As changes occur in any of the above mentioned areas, the municipality IT business unit, through the designated disaster recovery coordinator will determine if changes to the plan are necessary. This decision will require that managers be familiar with the plan in some detail. The

plan. After the changes have been made the municipal disaster recovery management will be advised that the updated documents are available. They will incorporate the changes into the body of the plan and distribute as required. The staff in the affected area will make changes that affect the platform recovery portions of the

with regards to assessing if the change is necessary, validating the adequate of the acceptance test, scheduling the promotion into a test environment, notifying the appropriate functions and verifying whether the change was implemented successfully. All updates or changes to the disaster recovery plan shall comply with the change control policy

4.3.5 Recovery information -roles and responsibilities

Role	Responsibility
Disaster Recovery Coordinator	Responsible for the implementation of the DRP, and overall
	compliance with, the Disaster Recovery Policy within their
	area of responsibility.
IT Manager	Communicate all decisions/upgrades/changes/new
	implementations in respect of technology that will directly
	impact disaster recovery capabilities and procedures to the
	Disaster Recovery Department.
IT manager	Compile and maintain, in accordance with standards, and
	with the assistance of the Disaster Recovery Department,
	individual Disaster Recovery procedure and supply a copy
	thereof to the Disaster Recovery Department.
Registry clerk	Active involvement in disaster recovery tests and the
	production of a detailed test log.

Recovery scenarios

This section describes the various recovery scenarios that can be implemented, depending on the nature of a disaster and the extent of the damage. The Disaster Recovery Coordinator decides which recovery scenario to implement when the Disaster Recovery Plan is invoked.

5.1 Scenario 1: minor damage

building is still available and the user can use normal office space to wait for systems to come In this scenario only a part of the computer processing environment may be affected, but the communication lines and network are still active. The goal of the recovery process in this case is to move the applications from unavailable systems to the standby facility. In this scenario the

Table 2: Action Plan

lask	Team
Evaluate the damage	Disaster Management Facilities and
	Operations
Decide a disaster	Municipal Manager
identify the concerned applications	IT Manager
Request the appropriate resources at the	ITRT
Standby Facility	
Obtain the appropriate backups	IT Officer
Restart the appropriate applications at the	IT Manager
. *	(
Inform users of the new procedures	Communications
Order replacement equipment to replace the	CMT and ITRT
damaged computers	
Install replacement equipment and restart the	ITRT
applications	
Inform users of normal operations	Communications

5.2 Scenario 2: major damage

next section will be executed. In this scenario a major disaster occurred. It could be that the building communication lines are unavailable. When such major damage occurs the disaster recovery process as stipulated in the

6 Disaster recovery processes

The municipal disaster recovery plan establishes procedures to recover municipal systems following a disruption. The plan will maximise the effectiveness of the contingency operations by means of an established plan consisting of the below phases.

Notification/ activation/ alert phase: to detect and assess damage and to activate the plan

original systems Recovery phase: to restore temporary business operations and recover damage done to the

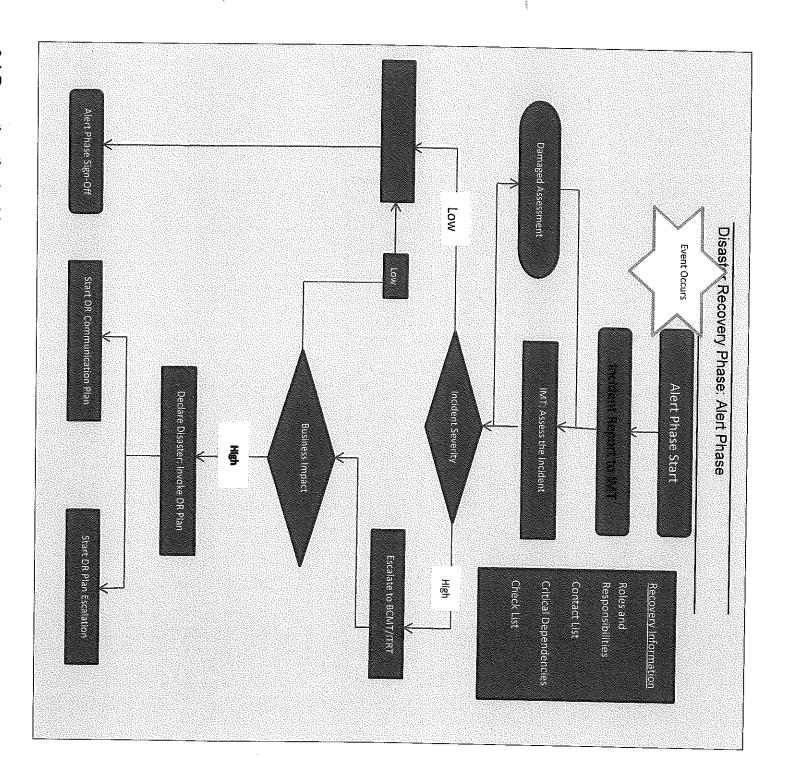
capabilities to normal Reconstitution/ normalization phase: to restore the municipality's system processing

In this section the three main recovery processes, Alert, Recovery and Return to Normal, are described in detail for the Fetakgomo local municipality.

Alert Phase: Recovery of information

This phase deals with, and provides information that must be available prior to, and immediately after a disaster happened. It includes;

- Reporting the incident;
- ၀၀၀ စ
- Damage assessment procedures; escalation and declaration criteria; declaration forms to be used when declaring a disaster;
- ဘာဨ internal and external communication;
- dependencies recovery information, including roles and responsibilities, contact detail and critical



6.1 Reporting the incident

at the following contact number(s): The person who discovers the incident must report the incident to the municipality's Help Desk

Table 3: Incident reporting

Helpdesk/II Office	Support Centre
015 622 8045	Telephone number
015 622 8094	Alternative number

answered are; the helpdesk official with as many observations as possible. The questions that should be The person who reports the incident must provide as much information as possible and provide and the second s

- which applications or systems are affected?
- What time did the incident occur?
- 0 What is the expected outage duration (if possible)?
- 9 What is the damage to equipment?
- What is the damage to computer room environment? And
- Any other relevant information.

management teams and determine the level of response which is appropriate to the incident the safety and welfare of the people affected by the incident, to activate the relevant recovery team of the problem. The IMT is responsible for covering the mitial actions required to ensure After the incident has been reported to the helpdesk it should notify the incident management

deployment of the relevant DRP, and if so should; The IMT should determine whether the nature and extent of the disruption warrant the

- Determine the nature of the disruption;
- <u></u> BCMT/ITRT where appropriate; Implement the selected procedures, securing the required resources through the
- 0 Identify, and where appropriate adapt the relevant continuity procedures to ensure that duration of the disruption. All such activities should be coordinated through the the business continues to operate as near to normal a manner as possible for the BCMT/ITRT;
- 9 through the BCMT/ITRT; cause of the disruption has been eliminated. All such activities should be coordinated Identify, and where appropriate adapt the relevant recovery procedures to ensure that the business recovers from disruption in a timely and controlled manner once the root
- ወ Activate the BCMT/ ITRT who investigates the requirement for further teams to be activated. Whilst the IMT is active, all activities should be coordinated through the BCMT?ITRT to ensure that no action taken by one IMT conflicts with actions taken by
- J basis regarding progress and the actions initiated by the IMT; Communicate with all parts of the department affected by the disruption on a regular
- 9 management of the disruption so all relevant lessons from the experience can be Organize once recovery actions have been completed, a thorough review of its learned and incorporated into procedures and training programmes

6.1.1 Assessing the incident

Assessment Team, will assess the damage and will evaluate the situation. The Fetakgomo Disaster Recovery Coordinator, through the services of the Damage

Table 4: Incident management team

Wembers	Responsibility	Telephone number
Marome P.O.S.	Analyse the damage at the primary site	015 622 8094
IT Manager	after a Disaster working together with the	
1	other member: Ensure the Integrity,	
	Availability and Confidentiality of the	
	damaged systems are still intact and	
	comply to the departments policies. This	
	personnel will also act as the Disaster	
	Recovery Coordinator for IT	
Phasha M.D	Assist the IT Office in assessing the	015 622 8076
Manager: PMU	ed	
	peripherals	
Maloma M.E	Ensure the security of the damaged	015 622 8009
Manager: Administration	environment and also security of the	
	alternate site if relocation is required	
Rachidi L.A	Responsible for all communication	015 622 8089
	forwarded to the users and to the incident	
	Management Team	

6.1.2 Damage assessment procedures

to speed up the damage assessment process; visit every instance, verify, and assess the following: Assets may have been damaged as a result of the disaster. The checklist below could be used

- a) IT infrastructure and services
- i) Main computer centre
- ii) Server room iii) Power
- iv) Air conditioning
- b) Servers
- i)Database
- ii) Application iii) Storage
- C Network components
- i)Switches
- ii) Routers
- Telephones systems

- Test main infrastructure and equipment for connectivity
- **9** Record damaged equipment and infrastructure
- Report back to disaster recovery coordinator.

Table 5: damage Assessment Checklist

Initials: Time:
the assets.
unauthorized persons from entering the facility, and to eliminate the potential for vandalism to
Assess the requirement for hiring physical security to minimise possible injury, to discourage
declare the event as a disaster.
where possible. It will also be used to as input to the CMT to
Team of the assessment, and coordinate equipment salvage
repaired. This form may be used to notify the T-Recovery
recovery time and the equipment that may be salvaged and
and computer room contents. It provides the estimated
damage to the building, data center, environmental controls,
data within four (4) hours. It documents the assessment of the
Purpose This form is used to assess the damage of the systems and

The purpose of the checklist below is to guide a damage review and assessment of the production facilities, the network, and/or the data centre facilities following a disaster. It is also documents the assessed damage for notification to the Crisis Management Team. In using the checklist, the Team must consider:

- ၀၀၀ စ The safety of the area for employees or vendors to work.

 The percent of normal capacity the equipment is able to function.
- Action to be taken to recover or repair damage equipment to enable functioning. Timeframes for repair or replacement of the damaged equipment to enable functioning.

Infrastructure	Damage	Salvageable	Description of damage
	YES NO	YES NO	
Building			
Exterior	4		
Interior	Wall Water To		
Data Centre			
Walls - 1			
Ceillings	>		
Floor			
Environmental controls	itrols		
Electrical			-
Air-con Signature			
Water supply			
Fire suppression			
Computer Room			
Servers			
External Disk			
Drives			
Tape Backups			
Network Cabling			

Communications	
Terminals	
Equipment	
Magnetic tape Media	
Spare Parts	
Office content	
Workstations	

Section 2 Section 2	
Date:	Initials:
Estimated time to complete repairs is greater than 7 business days.	
Estimated time to complete repairs is between 24 hours to 7 business days.	
Minor Disaster: Moderate damage to the facility and/or equipment.	
Estimated time to complete repairs is less than 24 hours.	
Non-Disaster: Minimal damage to the facility and/or equipment.	
following guidelines	followin
Based upon the damage assessment, determine the estimated recovery time based upon the	Based u
Estimated Recovery Time	Estima

	 ~~~	,	_	_	177	_		
Initials:					Item Salvage	repair	Identify equipment, documentation, or spare parts that are immediately salvageable or needing	Salvage and repair
Date:					Repair	es el	on, or sp	
							are part	
					Location		s that are imm	
					Sent to	•	ediately	
Time:					6	Č	salvagea	
					Date	Ġ	able or needing	

[	=	<u></u>	_	100 mg
	Initials:	recovery time and damaged and potentially salvageable equipment.	Verbally notify the Management Team of the conducted survey, damage assessment, estimated	erb
	ö	ery	Ē	9 1
		E Fi	헏	2
		e 2	fy #	8
		p pi	√e N	9
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		gec	ager	
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	Ď	p D	t Te	
	Date:	ten	am	
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Recovery briefing  Attend the recovery briefing scheduled the recovery briefing scheduled the recovery Teams members of the recovery	Recovery briefing  Attend the recovery briefing scheduled by the IT operations Recovery Management Team to ADDI'ISE RECOVERY Teams members of findings
Attend the recovery briefing scheduled by the Inapprise Recovery Teams members of findings.	d by the IT operations Recovery Management Team to findings.
Date / time of meeting:	Subject of meeting:

Equipment movement  If emergency mode operations will take place at a recovery site, the following, salvageable equipment should be transported to the alternative site.  Equipment  Description  Contractor to move equipment  equipment  Date of move				Initials:
Equipment movement  If emergency mode operations will take place at a recovery site, the following, salvageable equipment should be transported to the alternative site.  Equipment  Description  Contractor to move equipment  equipment  Date of move	15D.		17 - 17 - 17 - 17 - 17 - 17 - 17 - 17 -	
Equipment movement  If emergency mode operations will take place at a recovery site, the following, salvageable equipment should be transported to the alternative site.  Equipment  Description  Contractor to move equipment  Equipment				
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Equipment movement  If emergency mode operations will take place at a recovery site, the following, salvageable equipment should be transported to the alternative site.  Equipment  Description  Contractor to move equipment				
Equipment movement  If emergency mode operations will take place at a recovery site, the following, salvageable equipment should be transported to the alternative site.  Equipment  Contractor to move  Date of move		equipment		
Equipment movement  If emergency mode operations will take place at a recovery site, the following, salvageable equipment should be transported to the alternative site.		Contractor to I	Description	Equipment
Equipment movement  If emergency mode operations will take place at a recovery site, the following, salvageable		rnative site.	be transported to the alte	equipment should
Equipment movement	the following, salvageable	ce at a recovery site,	e operations will take place	If emergency mod
			ment	Equipment move

or its effects on the organisation's operations. Assessment and Salvage Team make any public statements regarding the disaster, its cause, The team should coordinate with the management Team, vendors, and suppliers to restore repair salvageable equipment. It should assist in the cleanup of the disaster area to permit eventual renovation and/or reconstruction. Under no circumstances should the Damage ರ್ಷ

The team shall not enter a disaster area until emergency personnel give permission.

#### 6.1.3 Escalation

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impacts on the maximum allowable downtime window, thereby posing a possible business risk; Crisis Management Team needs to be notified of the situation and the members are as follows Once the failure or disruption has been properly assessed, and established that it has an

Table 6: Crisis Management Team

082 737 7394	015 622 8084	Maphutha M.V	HR Manager
082 563 0091	015 622 8089	Rachidi L.A	Executive Support
076 236 3896	015 622 8094	Marome P.O.S	IT Manager
084 411 5796	015 622 8006	Maredi M.F	CFO &
071 462 1421	015 622 8001	Matumane N.D	Municipal Manager
Alternative no	Contact no.	Name	Designation

The Crisis Management Responsibilities are as follows:

Manage communication with regulators, investors, the media associates and staff,

impact of the incident and the downtime. A list of these managers is attached, see Annexure B The Crisis Management team should engage other Business Units Managers to assess the

Should business units managers decide that the incident has no immediate impacts on the business, the Help Desk will be notified and the incident will be closed, or depending on the situation, be resolved as a fault.

maximum allowable downtime window, a disaster is declared. The CMT informs the IMT which informs the BCM/ITR Team and the BCM/ITR Team invokes the DR plan. Should Business Unit Managers however decide that the incident impacts negatively on the ne.

## 6.1.3.1 Disaster Declaration Authority

empowered to declare and invoke a disaster: authority should therefore be defined. In the event of a disaster, only the people listed below is Making a wrong decision to declare a disaster could be a costly exercise. The correct level of 

Table 7: designated authorities who may declare a disaster

	IT Manager	CFO	Designation
	Marome P.O.S	Maredi M.F	Name
The state of the s	015.622.8094	015 622 8006	Contact no
	076 236 3896	084 411 5796	Alternative no

6.1.3.2 DISASTER DECLARATION FORM
TO:
FAX NO:
Tel no:
Alt no:
From: of (Business)
any:
(Customer representative) Tel no:
Fax no:
Time of verbal declaration:
Incident Number: The following server(s) was/were impacted by the disaster:
We the undersigned, hereby confirm the telephonic and verbal declaration of a disaster. The disaster was declared onthisthythy
make such a declaration and his designation is that
Yours faithfully
ביים ביים ביים ביים ביים ביים ביים ביים

Signature	

#### Designation

Once the IMT has been informed of the declaration of the disaster, it then informs the BCM/ITR Team. The following are the team members of the BCM/ITR Team:

Table 8: BCM/ITRT team

Member	Responsibility	Telephone number	Alternative
IT Manager	Project Management and overseeing	015 622 8094	076 236 3896
	that the recovery process is properly		
	resourced. Organize all required		
	recovery Teams.		
DR Coordinator	Coordinate the implementation of	015 622 8000	n/a
	DRP if the disaster strikes.		
Network	Recovery of the communication	015 622 8045	083 517 0899
Technician	networks.		
IT Officer	Fetch required tapes and restore of	015 622 8045	079 372 2357
	all backups and backups of both the	-	
	primary and alternative site data.		
	Responsible for all communication	015 622 8089	082 563 0091
Communication	that is set to the Incident		
	Management team		

The BCMT/ITRT is responsible for:

- Ensuring that all the facilities, people and other resources that they require to mount effective response, continuity and recovery operations; Coordinate the allocation of resources

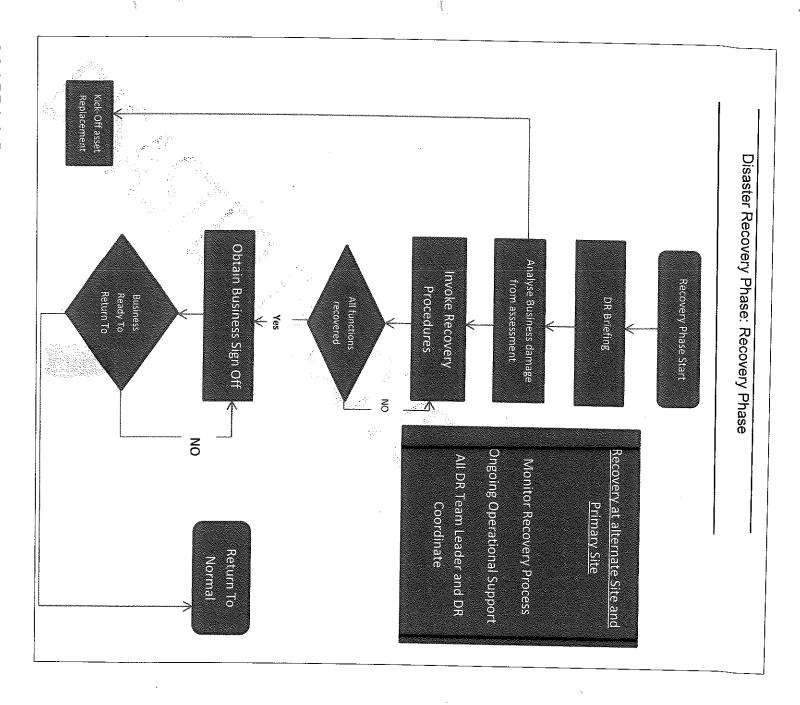
  Manage communication with IMT;

  DR Briefing
- ತರಾ

#### 6.2 Recovery phase

state of normality after a disaster has struck. It includes: This phase deals with, and provides information that will be required to restore the system to a

- ၀ဝ၈ DR briefing and analysis of damage from the assessment Backup procedures
- Recovery procedures



# 6.2.1 DR briefing and analysis of the damage assessment

The recovery process starts with an information session with all relevant recovery teams. The issues addresses during that meeting are;

a) The recovery phase is officially activated;

- <u>O</u>05 The damage assessment report is analysed;
  The recovery team members review the status of their respective areas of responsibility;
  The DR Coordinator reviews the overall plan with the team members;
- <u>o</u> Any adjustment to the Disaster Recovery Plan to accommodate special circumstances are decided upon; and
- ٦ Ongoing meetings for the duration of the recovery phase are scheduled

### 6.2.2 Invoke recovery procedures

#### 6.2.2.1 Backup procedures

The following roles and responsibilities will apply for this policy and procedures

Table 9: Backup personnel contact details

			10 1000
Name	Designation	Work Tel	Cell number
Malesa MM	IT Officer( Administrator)	015 622 8045	079 372 2357
Sakala K.S	Offsite Backup Personnel	086 123 4862	082 962 4284
			( ( i ( i   .   .   .   .   .   .   .   .   .

# 6.2.2 Request and delivery of required backup tapes

centres being 3 km. off-site storage centre to DR Site data centre. The delivery time of the backup tape under normal circumstances is approximately 90 minutes due to the distance between the two data off-site storage side will identify the correct full backup tape as well as the incremental backup tape. The backup Administrator is requested as a matter of urgency to transport the tape from Backup Administrator needs to collect the required backup tapes. The off-site personnel on the

# 6.2.2.3 Technical recovery procedures

The RACI below needs to populate with allowed and actual time to recover each of the steps

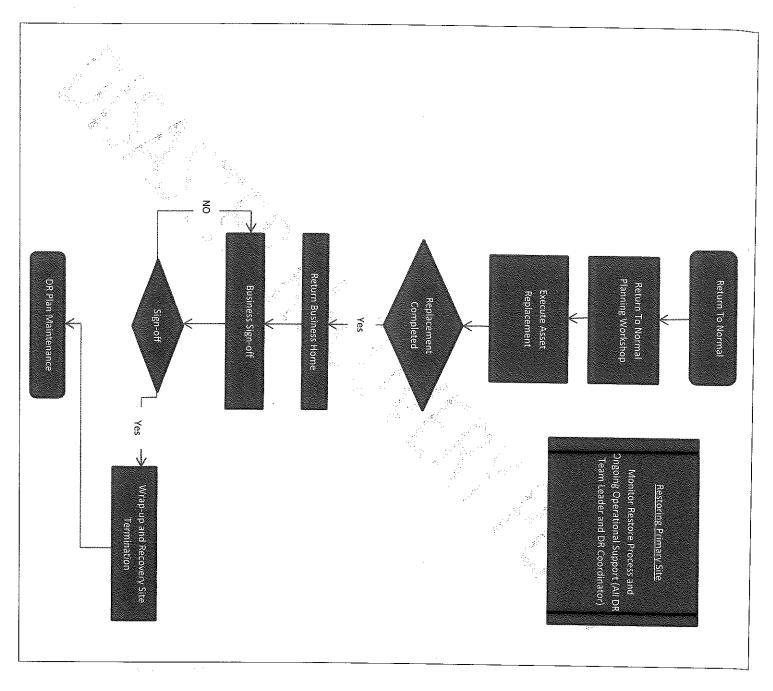
Table 10: recovery procedure under annex C

							를 ³ 독기	Directory	Active	recovery	Function	System/
Test active Directory	Directory	Active	Restore	Directory	Active	Configure	Directory	active	Install the		Area	Action
					,							Accountable Allowed
									-		Time	Allowed
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	registration	Vehicle								Cash											S	
			server	focus	the Cash	Configure	server	Focus	Cash	Install the		tapes	Backup	from	VIP Data	Restored	Server	the VIP	Configure	VIP Server	Install the	
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### 6.3 Return to normal phase

- This phase deals with, and provides;
  a) Information that will be required for the replacement of daaged assets which may have resulted from the disaster.
- ত computer centre, and Maintenance and testing of the plan The transfer of recovered systems from the standby recovery facility to the home site
- <u>O</u>



### 6.3.1 Information requirements

## 6.3.1.1 Return to normal checklist

to the DR site was attained. Once the building abd associated infrastructure are restored at the primary datacenter (on original or new site) and staff are ready, then a planned transfer of the workload from backup site to primary site can begin. This is essentially a reversal of the procedures by which transfer

These steps will take the form:

Steps	Yes Remarks
Confirm primary site operational	
Confirm the integrity of Primary site systems	
Backup site will be informed and begin local	
preparations for transfer of data	
Transfer of staff from Backup site	
Make any local configuration changes required to	
accommodate third party connectivity	
Ensure connectivity to primary system	
Individual site managers will be informed	
Help desk will be formally informed that the	
primary site is operational again	
Other third parties will be informed	
(e.g. IT Master)	
The Disaster Recovery Plan will be reviewed in	
conjunction with the Disaster Recovery	
Coordinator and updated with any lessons	
learned from the live Disaster Recovery	·
Communicate changes to all interested parties,	
including third parties	
The disaster recovery team will be de-briefed and	
disbanded	

# 6.4 Damage assessment and salvage team

The ITR Team is responsible for the assessing the damage to the LAN and LAN facilities and reporting the level of damage to the Incident Management Team. They must perform the assessment as quickly as possible following the disaster. The team is also responsible for overseeing the salvage operations required to clean up and repair the data center and for reestablishing the data center in the reconstituted or new site.

Table 11: Damage assessment and salvage team responsibilities

Estimate recovery time based upon the damage assessment (From the Damage
Assessment Checklist)
Identify salvageable hardware and communication equipment
A
Apprise the Management Team on the extent of damages, estimated recovery time,
required physical security, and salvageable or repairable equipment.
Maintain salvageable hardware and equipment log.
Coordinate with vendors and supplier in restoring, repairing, or replacing salvageable
hardware and equipment
Coordinate transportation of salvaged equipment to recover site, if necessary
Provide support in cleaning up the data center following the disaster.

#### 6.5 Physical security team

The Physical Security Team provides personnel identification and access limitations to the building and floors and acts as a liaison to emergency personnel. This is crucial during the time of a disaster because of the uncommonly large number of vendors, contractors, and other visitors requiring access to the building and floors.

Table 12: Physical security team responsibilities

Provide assistance in any official or insurance investigation of the damage site.	Schedule security for transportation of files, reports, and equipment.	Provide security guards, as required.	Coordinate with Facility or Building Management for authorized personnel access.	Cordon off the data center to restrict unauthorized access.	Act as a liaison to emergency personnel, such as fire and police departments.	Assess damage to entries to the disaster site.	Post-disaster responsibilities
-----------------------------------------------------------------------------------	------------------------------------------------------------------------	---------------------------------------	----------------------------------------------------------------------------------	-------------------------------------------------------------	-------------------------------------------------------------------------------	------------------------------------------------	--------------------------------

Table 13: Communication team responsibilities

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Table 14: Hardware installation team responsibilities

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Inspect the alternative site for physical space requirements.	Verify the pending occupancy requirements with the alternative site.	
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# Table 15: IT recovery team responsibilities

												Pos
Coordinate the transfer of equipment, furniture, and personnel to the alternative site.	Monitor the security of the alternative site and the LAN network.	Communication Teams with installation plans.	Check the alternative site's floor configuration to assist the Hardware, Software, and	the alternative site.	Set up and operate a sign-in, sign-out procedure for all IT materials sent to and from	Return backup medium in storage containers to the off-site storage unit.	Ensure backup tapes are sent to the off-site facility for storage.	Receive the delivery of off-site storage containers.	Arrange for the delivery of off-site storage containers.	Schedule a new pickup location with the off-site storage unit.	Assist the IT Technical Team as required.	Post-disaster responsibilities

Table 16: IT technical team responsibilities

	Restore operating syst Initialize new tapes as Conduct backups at th Test and verify operati	Restore operating systems, applications, and network software from backup medium. Initialize new tapes as needed in the recovery process.  Conduct backups at the off-site location.  Test and verify operating systems, applications, and network software.  Modify the LAN configuration to meet the alternative site configuration.
Conduct backups at the off-site location.  Test and verify operating systems, applications, and network software.  Modify the LAN configuration to meet the alternative site configuration.	Initialize new tape	is as needed in the recovery process.
Test and verify operating systems, applications, and network software.  Modify the LAN configuration to meet the alternative site configuration.	Conduct backups	at the off-site location.
Modify the LAN configuration to meet the alternative site configuration.	Test and verify o	perating systems, applications, and network software.
	Modify the LAN c	onfiguration to meet the alternative site configuration.

## 6.5.1 Asset replacement procedures

The following checklist should be used to speed up the asset replacement process:

- <u>ත</u> න Get detailed information on impact of disaster;

  Determine specifications of hardware required based on the relevant asset register (Annex A – asset register);

  Determine versions and specifications of software required based on the information
- provided by relevant role player;
  Determine supplier that will be respond fastest;
- **⊸©**©
- Get delivery date from supplier; Get estimated costs for replace for replacement;

g) Complete the asset purchase documentation; and get management approval of the order

In the case where an asset is damaged the following RACI needs to be populated. This will identify time delays when replacing hardware and/or software and identify time impact on RTO.

Table 17: Damage assessment checklist

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#### 6.5.1.1 Preferred suppliers

This is done according to municipal procurement policy and preferred supplier.

		Supplier Co
		ommodity/Products
		Telephone number /
	дин гомман извения энце, адахную недустава, адахностиватую създення	Alternative number

process. The contract order number should be quoted when placing an order to speed up the ordering

6.5.2 Disaster recovery plan maintenance 6.5.2.1 Plan maintenance checklist

The following list should be used as a guideline/reminder to maintain important elements of the plan. As a minimum requirement, the plan should be validated every 12 months.

Plan Element	Responsible person/Team Plan validation	Plan validation
Maintaining the strategy, plans and	DR coordinator	ITR Team
Ensuring education and awareness	DR coordinator	ITR Team
of disaster recovery is given		
sufficient prominence.		
Review of the plan and risk (with	DR coordinator	ITR Team
their associated reduction		
measures), testing of the plans,		
controlling changes to the strategy		
and the plans so these are		
maintained to be consistent with		

each other.		
Training people to produce the	DR coordinator	ITR Team
strategy and plans as well as to		
undertake the actions embodied		
within the plans.		
Assurance of the quality and	DR coordinator	ITR Team
applicability of the plans. In this		
context quality refers to		
adaptability, completeness, data		
quality, efficiency,		
friendliness/usability,		
maintainability, portability,		
reliability, resilience, security,		
testability and timeliness.		

## 6.5.2.2 Plan maintenance schedule

should be adhered to: The DRP must be kept up to date to reflect changes in the business. The following schedule

Type of change that will influence the contents of the plan	Responsible person/team	Plan update complete
Additions, deletions, or upgrades to hardware	DR Coordinator and	
platforms.	Technical Administrator	
Additions, deletions, or upgrades to system	DR Coordinator and	
software.	Technical Administrator	
Changes to system configuration	DR Coordinator and	
	Technical Administrator	
Changes to applications software affected by	DR Coordinator and	
the plan	Technical Administrator	
Changes that affects the availability of the	DR Coordinator and	
Alternative DR	Technical Administrator	
Changes to contact list (including	All parties involved	
vendors/suppliers)		

### 6.5.3 Disaster recovery plan testing

on testing of the plan include: Individual elements of each DRP need to be tested (or practiced or rehearsed). Final sign-off of a particular plan or element of a plan depends on when testing can be carried out. Guidelines

- Testing of the plan could be in the form of a 'desk check' or detailed technical testing.
- <u>D</u> <u>B</u> An initial technical test can usually be done without the need to involve the business, such as acceptance of a new IT system. However, for subsequent tests it is prudent to get the business to be involved to 'prove' the capability and to aid mutual understanding of the activities and resources needed to achieve the common goal of business recovery.

 $\odot$ Tests may be announced or unannounced; however, in the latter case it is necessary to ensure that senior Management approval is obtained in advance otherwise it may be difficult to achieve commitment.

# 6.5.3.1 Issues to consider when planning for a test

Tests are likely to disrupt the business. When testing DRPs, it is prudent to consider:

Issues Is it possible to time this testing to cause least disruption to your business functions or less upset to your customer?	Comments
customer?	
How much will the test cost? – is this appropriate for the additional confidence gained over other forms of testing	
including a desk check?	
How can staff be trained to cope with the situation if they	
do not experience it in rehearsal – mode?	
Once the DRP is in operation – how will you return to	
normal business operations? – are there specific issues	
here that warrant testing in their own right.	
	46

# 6.5.3.2 Fetakgomo municipality's testing procedures

Customer logs a call at helpdesk and requests to "initiate the disaster recovery plan"

(Note: Please confirm that the call is routed to ITR Team)

reference number. Helpdesk logs call and immediately notifies the operations team and supply the request

one hour of the call being logged or a problem being detected. (In a test situation the answer is ITR team assesses the situation and determines whether they are able to recover system within

ITR team will invoke disaster recovery plan on their system and follow the instructions

The test coordinator should;

- <u>a</u> Note whether the operations officer uses the "quick guideline" option to get acquainted to the system (please explain this!)
- Refer to the strategy option to get an idea of the process Start recovery by beginning at the top of the flowchart;
- Notify the relevant staff as specified;
- **⊅**@⊕05 Note any changes necessary to recover effectively; and
- Record time it takes to recover system from the movement the call was logged

Once the system is working in backup mode users must ensure integrity and availability of data

Once they are satisfied, they should contact the IRT team staff to notify that they are satisfied with the test.

ITR Team staff must then initiate the normalization process and verify that all system is available.

DR Coordinator to setup post test meeting to discuss any issue that need attention. All parties who were involved in the pre-test meeting need to identify all the issues, which came up during the test, and such issues need to be resolved as a matter of urgency. 

# 7 Server environments for Fetakgomo municipality.

Server name: beta	
IP address: 10.55.48.119	
Make: HP	
Operating system: Windows server 2008 R2 Standard	
Applications and windows server components installed on this server	
Attix5Pro	
Pastel Evolution	
Microsoft SQL server 2008	
System Endpoint Protection	

Server name: Eeta-mail
IP address: 10.55.48.120
Make: HP
Operating System: Windows server 2008 R2 Standard
Applications and windows server components installed on this server
Domain controller
Internet Information Server
Microsoft Exchange 20010
Attix5Pro SE
Symantec Endpoint Protection

Server name: Proxy
IP address: 10:55.48:126
Make: Fijitsu Siemens
Operating System, Linux
Applications and windows server components installed on this server
Squid Proxy server for internet access to users

Annex A.
Acı

SQL SLA SITA SP2 WAN RAID5 ITRT ISP LED LOB RACI RTO PDF POC ∏ PP CFO DRP BCM ₹ M 뭈 디 퓨뮤 DNS SMI Wide Area Network Service Pack 2 State Information Technology Agency Service Level Agreement Recovery Time Objectives Structure Query Level Responsibility Accountability, Consult and Inform Post Office or Purchase Order Portable Document Format Network Interface Card Integrated Development Programme Redundant Array of Independent Disk Kilometer Information Technology Recovery Team Internet Service Provider Information Technology Internet Protocol Human Resource Disaster recovery Domain Name Service Chief Financial Officer Crisis Management Team **Business Unit Business Continuity Management** Bar Coded Asset Audit Business Continuity Management Team ocal Area Network _ine of Business ocal Economic Development ncident Management Team nformation technology Recovery Information and Communication Technology Disaster Recovery Plan

#### Annex B. Insurance

Table 18: Insurance cover held by organization

Name of policy	Type of cover	Period of Cover	Amount of cover Person respon	sible	Next renewal date
				OMPHICOOK	
				maintaining	
				cover	
Municipal	Comprehensive	Financial	R87 0500 000.00	Chief	30 June 2015
Building,	cover with	year		Financial	
furniture and	Alexander			Officer and	
any other	Forbes			Municipal	si Se ^{iri}
property				Manager	j.
owned by the					
municipality					

# Annex C. Fetakgomo Municipality - asset

Table 19: Hardware list and configuration in the production environment

CC VC TOTAL		
Operational description : Exchange server	xchange server	
Туре	HP ProLiant ML350	
Processors	Intel (R) Xeon (R) CPU	
Memory	4 GB	1-0
Drive Capacity	545 GB	
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IP - Configuration		
iP Address	10.55.48.120	
Default Gateway	10.55.48.1	
Subnet Mask	255.255.255.0	
Primary DNS	10.55.48.102	
Secondary DNS	10.55.48.102	
Other		
Operating System	Microsoft Windows Server 2008	
Service Pack	2	
Product keys		
Applications	Exchange Server 2010	
Version or updates		
System settings		
(G)		
Supplier		
Contact details	1	
Warranty		
Additional warranties		

Server name:	
Operational description: Domain Control	nain Control
Туре	HP ProLiant DL 380 G7
Processors	Intel (R) Xeon (R) CPU
Memory	12.0 GB
Drive capacity	546 GB
- - - -	
IP-Configuration	

Subnet Mask	255.255.255.0
Primary DNS	10.55.48.102
Secondary DNS	10.55.48.102
Other	
Operating system	Microsoft Windows Server 2008
Service packs	
Product keys	
Applications	
Version or updates	
System settings	
Supplier	
Contact details	
Warranty	

System Settings	Version or Updates	Applications		Product keys	Service Packs	Operating system Munsoft	Other Section 1	Secondary DNS 10.55.48.102	Primary DNS 10.55.48.102	Subnet Mask 255.255.0	Default Gateway 10.55.48.1	IP Address 10.55.48.122	IP-Configuration	Drive capacity 300 GB	Memory 8.GB	Processors 2.3 GH	Type IBM	Operational description: Application server-
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Supplier	Munsoft
Contact details	011 215 8000
Warranty	
Additional warrantis	

## Annex D. IT recovery activity guidelines

#### D.1. Power and other utilities

Table 20: Procedure for restoring electrical power

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Activities	Resources	Estimated completion
	required	time/date
Assess damage (see attached form)		
On-site survey		
Test power availability in each area		W. W. W. W. W. W. W. W. W. W. W. W. W. W
Test safety levels		
Test cables, wiring, junction boxes		
Prepare report and advise ITRT		Control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the contro
leader	18 11 11 11 11 11 11 11 11 11 11 11 11 1	
Locations affected by outage	9.	
	779	
Recovery activities required		
Activity 1		
Activity 2		
Complete the roles and responsibilities of individual employees on the restoring electrical power	f individual employees	on the restoring electrical power
form.		
Table 21: Estimated cost of work required	ired	
-		Dot
Completed by   Name		Date

Completed by Na	lame	Date
Approved by Na	lame	Date

# D.2. Premises, fixtures and furniture (facilities recovery management)

Table 22: Procedure for recovering premises, fixtures and furniture

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Advise ITRT leader	Advise insurance company	Identify further inspections required	Evaluate re-usability	Access problems	Safety issues	supports, walls and roof	On-site survey of main structures including	<ol> <li>Assess damage (see form attached)</li> </ol>	
		N.							completion time/date

2. Assess non-structural damage	
Determine damage to power, lighting,	
heating, cooling and ventilation.	<b>文</b> 稿
Determine damage to internal partitioning	
Determine damage to doors, windows and	
floors	
Determine damage to decoration	
Determine damage to fixtures and fittings	William Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of th
Determine damage to furniture	
Evaluate recovery period prior to re-	
occupation	
Advise ITRT leader	
3. Power, lighting, heating, cooling and	
Dropper Aptollod list of domogo	
Assess recoverability of each damage	
component	
Prepare preliminary specification of repair	
work or replacement	
Identify availability of suitable vendors	
Determine estimated costs	THE REPORT OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF
Instruct vendors	
Monitor progress	
Advise ITRT leader	
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4. Internal partitioning	
Prepare detailed list of damage	
Assess recoverability of each damage	
component	
Prepare preliminary specification of repair	
work or replacement	
Identify availability of suitable vendors	
Determine estimated costs	
Instruct vendors	
Monitor progress	

nated costs s inder	Determine estimated costs Instruct vendors Monitor progress Advise ITRT leader
Assess recoverability of each damage component Prepare preliminary specification of repair work or replacement	Assess recoverability component  Prepare preliminary a work or replacement lidentify availability of
8. Furniture Prepare detailed list of damage	8. Furniture Prepare detailed list
work or replacement Identify availability of suitable vendors Determine estimated costs Instruct vendors Instruct progress Advise ITRT leader	work or replacement Identify availability of suitat Determine estimated costs Instruct vendors Monitor progress Advise ITET leader
7. Fixtures and fittings Prepare detailed list of damage Assess recoverability of each damage component Prepare preliminary specification of repair	7. Fixtures Prepare detaile Assess recover component Prepare prelimi
Mork of replacement Identify availability of suitable vendors  Determine estimated costs Instruct vendors  Monitor progress  Advise ITRT leader	Monk of replacement lidentify availability of suital Determine estimated costs Instruct vendors  Monitor progress  Advise ITRT leader
6. Decoration Prepare detailed list of damage Assess recoverability of each damage component Prepare preliminary specification of repair	6. Decoration Prepare detailed li Assess recoverabi component Prepare preliminar
Determine estimated costs Instruct vendors Monitor progress Advise ITRT leader	Determine estimated costs Instruct vendors Monitor progress Advise ITRT leader
5. Doors. Windows and floors  Prepare detailed list of damage Assess recoverability of each damage component Prepare preliminary specification of repair work or replacement	5. Doors. Windle Prepare detailed list Assess recoverability component Prepare preliminary work or replacement

|--|

Complete the roles and responsibilities of individual employees on the facilities recovery management form.

#### D.3. Communication systems

# Tables 23: Procedure for restoring communications systems

Activities	Resources required	Estimated Completion Time/date
1.Assessment damage (see form attached)		
On-site inspection to identify areas of the		
communications systems affected by emergency		
Test each item of equipment		
Prepare a record of all equipment obviously		
damaged or not working		

	Advise ITRT leader
X 85.0	Issue purchase orders
	Notify insurance company
577 27 2 3 3 4 4	Obtain vendor quotes or replacements
	suitable for organization's purposes
	Ensure equipment specification is still
	Prepare list of non-repairable equipment
	3.Arrange replacements
	Advice ITRT leader
	and test on return
	Monitors that equipment is repaired on time
All the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	repairs
	Maintain inventory of equipment sent for
	vendors/maintenance firm to effect repairs
	Instruct telecommunications
	Notify insurance company
	period of repair
	Obtain estimates for repairs, for cost and
in the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se	engineer
	telecommunications maintenance/repair
	Have damage assessed by
	support is available
	Check to see if vendor maintenance
	2.Arrange repair
	Advise ITRT leader
-	Ensure suitable safety levels

Complete the roles and responsibilities of individual employees on the restoring communications systems form.

# D.4. Systems (hardware and software)

# Table 24: Procedure for recovering hardware

Activities	Resources required	Estimated completion
		time/date
1. Access physical damage (see		
form attached)	A. A. A. A. A. A. A. A. A. A. A. A. A. A	Table and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the stat
On-site inspection to identify hardware		
affected by emergency		
Arrange temporary power if necessary		
Ensure area around electrical equipment is		
dry and clear		
Test each item of hardware		
Prepare a record of all hardware damaged		
or not working		
Ensure suitable safety levels	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	
Advise ITRT leader		

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2. Arrange repair to equipment	
Check to see if vendor maintenance	
support is available	
Have damage assessed by IT hardware	
maintenance/repair engineer	
Obtain estimates for repairs, for cost and	
period of repair	
Notify insurance company	
Instruct vendors/maintenance firm to effect	
repairs	
Maintain inventory of hardware sent for	
repair	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Monitor that hardware is repaired on time	
and test on return	
Advise ITRT leader	
3. Arrange replacements	
Prepare list of non-repairable equipment	
Ensure hardware specification is still	
suitable for organisation's purpose	
Obtain vendor quotes or replacements	
Notify insurance company	
Issue purchase orders	
Advise ITRT leader	* Section 1
Completed by Name	Date
	7

Completed by	Name	Date
Approved by	Name	Date

# Table 25: Procedure for recovering networks

Activities	Resources	Estimated
	required	completion time/date
<ol> <li>Assess damage (see form attached)</li> </ol>		
On-site inspection to identify LAN and WAN		
network servers affected by emergency		
Arrange temporary power if necessary		
Ensure that the area around electrical equipment	-	
is dry and clear		
Test each LAN and WAN network server		
Prepare a record of all network components	-	
damaged or not working		
Ensure suitable safety levels	***************************************	
Assess damage to network software through		
stringent test		
Assess damage to hubs, modems and routers		
Assess damage to ISP links and website		
Advise ITRT leader		

	Advise ITRT leader
eriti E	and software
	Issue purchase orders for replacing equipment
	Notify insurance company
	Obtain vendor quotes or replacements
	organisation's purpose
	Ensure network specification is still suitable for
	Prepare list of non-repairable equipment
	3. Arrange replacements
Ma. (1)	Advise ITRT leader
	and tested
	Monitor that network items are repaired on time
	repaired
A CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR	Maintain inventory of network items to be
	repairs
	Instruct vendors/maintenance firm to effect
	Notify insurance company
	repair
	Obtain estimates for repairs for cost and period of
	Identify backup and recovery network tapes
	maintenance/repair engineer
	Have damage assessed by IT networks
	available
	Check to see if vendor maintenance support is
	2. Arrange repair

Complete roles and responsibilities of individual employees on the recovery of IT networks form.

Table 26: Procedure for recovering operating systems

ACTIVITIES	required	completion
		time/date
Assess damage (see attached form)		
On-site inspection to identify operating systems		
affected by emergency		
Arrange temporary power if necessary		
Ensure area around electrical equipment is dry		
and clear		
Test each operating systems		
Prepare a record of all operating systems		
damaged or not working		
Ensure suitable safety levels		
Advise ITRT leader		
	-	
2. Arrange repair		

Complete roles and responsibilities of individual employees on the recovery of IT operating systems form.

Table 27: Procedure for recovering application systems

Activities	Resources	Estimated
	required	completion
1. Assess damage (see attached form)		time/date
On-site inspection to identify application systems		
affected by emergency		
Arrange temporary power if necessary		
Ensure area around electrical equipment is dry	1127 1177 1177 1177 1177 1177 1177 1177	
and clear		
Test each application systems		
Prepare a record of all application systems		
obviously,damaged or not working		
Ensure suitable safety levels		
Advise ITRT leader		
2. Arrange repair		
Check to see if vendor maintenance support is		
available		
Have damage assessed by IT application		
systems maintenance/repair engineer		
State of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first of the first		

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		, 10 mg	A		A The State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$			7/2								

Complete roles and responsibilities of individual employees on the recovery of IT application systems form.

	Approved by	Completed by
-	Name	Name
	Date	Date

### D.5. Production equipment

Table 28: Procedure for recovering production equipment

Activities	Resources	Estimated
	required	completion time/date
<ol> <li>Assess damage (see attached form)</li> </ol>		
On-site inspection to identify areas affected by		
emergency		
Arrange temporary power if necessary		111111111111111111111111111111111111111
Ensure area around electrical equipment is dry		
and clear		
Test each item of production equipment		
Prepare a record of all production equipment		
obviously damaged or not working		
Ensure suitable safety levels		
Advise ITRT leader		
2. Arrange repair	4	
Check to see if vendor maintenance support is		
available		

Advise ITRT leader	Issue purchase orders	Notify insurance company	Obtain vendor quotes or replacements	suitable for organisation's purposes	Ensure production equipment specification is still	Prepare list of non-repairable equipment	3. Arrange replacements		Advise ITRT leader	time and test on return	Monitor that production equipment is repaired on	for repairs	Maintain inventory of production equipment sent	repairs	Instruct vendors/maintenance firm to affect	Notify insurance company	of repair	Obtain estimates for repairs, for cost and period	engineer	Have damage assessed by maintenance/repair
		A CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR						A CANADA WA												

#### Other equipment

# Table 29: Procedure for restoring other equipment

Activities	Resources	Estimated
	required	completion
Assess damage (see attached form)		เมาย/นสเธ
On-site inspection to review areas affected by		
emergency %		
Arrange temporary power if necessary		
Ensure area around electrical equipment is dry		
and clear		
Test each item of equipment		
Prepare a record of all equipment obviously		
damaged or not working		
Ensure suitable safety levels		
Advise ITRT leader		
2 Arrango ropair		
Check to see if vendor maintenance support is		
available		
Have damage assessed by maintenance/repair		

	A MARION LLINE LONGOCI
	Advise ITRT leader
	Issue purchase orders
	Notify insurance company
	Obtain vendor quotes or replacements
	organisation's purposes
	Ensure equipment specification is still suitable for
A CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF THE CONTRACT OF	Prepare list of non-repairable equipment
	3. Arrange replacements
	Advise ITRT leader
	test on return
	Monitor that equipment is repaired on time and
	Maintain inventory of equipment sent for repairs
	repairs
	Instruct vendors/maintenance firm to affect
	Notify insurance company
	repair
	Obtain estimates for repairs for cost and period of
	engineer

Complete the roles and responsibilities of individual employees on the restoring other equipment form.

Table 30: Procedure for recovering server room facilities

	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
Activities	Resources required	Estimated
		completion
		time/date
<ol> <li>Assess damage (see attached form)</li> </ol>		
On-site survey of main structures including		
supports, walls and roof		
Safety issues		
Access problems		
Evaluate re-usability		
Identify further inspections required		
Advise insurance company		
Advise ITRT leader		

•						_	<b>-</b>
	floors	Determine damage to doors, windows and	Determine damage to internal partitioning	heating, cooling and ventilation.	Determine damage to power, lighting,	On-site survey of all non-structural facilities	Assess non-structural damage

Prepare preliminary specification of repair
component
Assess recoverability of each damage
Prepare detailed list of damage
6. Decoration
Advise ITRT leader
Monitor progress
Instructivendors
Determine estimated costs
Identify availability of suitable vendors
work or replacement
Prepare preliminary specification of repair
component
Assess recoverability of each damage
=
<ol><li>Doors. Windows and floors</li></ol>
Advise ITRT leader
Monitor progress
Instruct vendors
Determine estimated costs
Identify availability of suitable vendors
work or replacement
Prepare preliminary specification of repair
component
Assess recoverability of each damage
Ξ
<ol><li>Internal partitioning</li></ol>
Advise ITRT leader
Monitor progress
Instruct vendors
Determine estimated costs
Identify availability of suitable vendors
work or replacement
Drenare preliminary specification of repair
Assess recoverability of each damage
Prepare detailed list of damage
ventilation
3. Power, lighting, heating, cooling and
Advise ITRT leader
occupation
Determine damage to idmiture
Determine demons to firm it is
Determine damage to fixtures and fittings
Determine damage to decoration

Notify customers and suppliers of the
Advise possible period at temporary location
temporary location
Notify all affected management and staff of
10. Relocation to temporary premises
equipment/furniture and other damage items
Issue purchase orders for replacing
Prepare site for temporary occupation
Decide on suitable site
Inspect possible temporary sites
Contact real estate broker
Identify any special requirements
Assess period for temporary relocation
Assess space required
<ol><li>Identify need for temporary locations</li></ol>
 Advise ITRT leader
Monitor progress
Instruct vendors
 Determine estimated costs
Identify availability of suitable vendors
Prepare preliminary specification of repair
component
Assess recoverability of each damage
<b>5</b>
8. Furniture
Advise ITRT leader
Monitor progress
Instruct vendors
Determine estimated costs
identify availability of suitable vendors
Prepare preliminary specification of repair
component
Assess recoverability of each damage
Prepare detailed list of damage
7. Fixtures and fittings
Advise ITRT leader
Monitor progress
Instruct vendors
Determine estimated costs
Identify availability of suitable vendors
work or replacement

Į	_							_			7
	equipment to original premises	Arrange transport of furniture and	Notify customers and suppliers of relocation	relocation date	Notify all affected management and staff of	premises	11. Prepare to return to original	temporary premises	Arrange to transport undamaged items to	change of address/contact details	

room facilities form. Complete roles and responsibilities of individual employees on the recovery of server

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Council Resolution No.

+18

Date

Mamphekgo K.K

Date

The Speaker