

# DEFICE OF THE MEDICAL SUPERINTENDENT LAHORE GENERAL HOSPITAL, LAHORE

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No. AMS (STAT-DMP)	/LGH, Dated, Lahore the /	/2018

#### CIRCULAR

The Flood Emergency Response Plan is one means of ensuring site resilience to flooding, as well as staff safety. An effective Flood Emergency Response Plan, when properly executed, can greatly reduce potential property damage and services/ business interruption. The Disaster Management and Meteorological authorities have forecasted unusual rains in the country. Every year, the monsoon season brings disaster to this institution due to its geographical location creating challenges to the administration as well as to the patients/ visitors.

- 2. Keeping in view the above, the "Flood Emergency Response Plan" of Lahore General Hospital is developed for coordinating response to flood, This plan and subsequent actions are tactical in nature, in that the disaster will probably last a very short period of time and is brought under control rather quickly. The Flood Emergency Response Plan addresses the incident prior to, during and directly after impact in orders to preserve property and restore critical operations.
- 3. This Plan after its approval by the competent fora is being circulated to all concerned with the request to kindly implement the provisions of the plan in order to lessen damages and to cope with the expected disaster situation in the institution, please.

(Prof. Dr. Agha Shabbir Ali)
CE/Principal
PGMI/AMC/PINS/Lahore General Hospital, Lahore

No. AMS (STAT-DMP)	56809.70	_/LGH, Dated, Lahore the, _	13-7	/2018
A copy of the above is f	orwarded for information	n to the:		

- Secretary to Government of the Punjab, Specialized Healthcare & Medical Education Department.
- CE/Principal, PGMI/AMC/PINS/LGH & Allied Health Institutions, Lahore.
- Medical Superintendent, Lahore General Hospital, Lahore.
- 4. All the AMSs/ DMSs, PINS and Lahore General Hospital, Lahore.
- All the Heads of Clinical Departments of PGMI/AMC/PINS/LGH, Lahore.
- Director (Emergency), Lahore General Hospital, Lahore.
- Director (OPD), Lahore General Hospital, Lahore.
- 8. Director Finance, LGH, Lahore
- Chief Pharmacist, LGH, Lahore.
- 10. All Store Incharges of LGH, Lahore.
- 11. AMS (Statistics/PGRs/SMB/HRS/BBM)/Focal Person HRS, PGMI/AMC/LGH, Lahore."
- 12. Incharge Computer Cell, LGH, Lahore for its placement on the official website of the institution.
- 13. Office File.

AMS (Statistics/PGRs/Service Matters)
Lahore General Hospital, Lahore







# PGMI/AMC/PINS/LAHORE GENERAL HOSPITAL, LAHORE & ALLIED HEALTH INSTITUTIONS

#### INTRODUCTION:

The Flood Emergency Response Plan is one means of ensuring site resilience to flooding, as well as staff safety. An effective Flood Emergency Response Plan, when properly executed, can greatly reduce potential property damage and business interruption. Most flooding events allow an adequate warning period to implement an effective emergency response plan. This warning period is an important factor to consider in the development of the plan. The definition of the "critical" flood hazard, at which mitigation measures are recommended, differ from country to country, as well as regionally within the same country. However, for water body flood, it is generally recommended that a site within a 0.2% annual probability of occurrence flood zone, i.e. 500 year return period, consider such measures. Sites within wind-driven flood zones, e.g. typhoon, tropical cyclone or hurricane, as well as regions prone to flash floods, are also recommended to

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The Flord Emergency Response Plan of Lahore General Hospital consists of three Phases:



# I. PREPARATION PHASE:

The activities during this phase are primarily of a planning nature, and are a part of a comprehensive risk assessment analysis. The time frame for these activities is typically several weeks/months before a potential event:

Identify source of the total	Details	
Identify source of flood; river, streams, lake, rain, reservoir, dams	Clarify with local authorities for:	Responsibility
Identify and contact outhers	Locations with high value and/or significant contribution to the group value chain, conduct a site specific flood analysis.  Even small streams or topographic features, e.g. if the site is in a low-lying area, can lead to flooding	
	Identify local authorities responsible for this service and include the site management/emergency response team in any notification and warning service issued by this authority or agency. Define the time between the various warning levels and time required for the event to reach the site for each individual water source.	Focal Person to contact Local/Provincial authorities (Like CDG, PDMA, Health Department etc.)
the flood plan:	<ul> <li>Identify the local authority or agency responsible for monitoring meteorological and water body conditions.</li> <li>Establish the conditions (water levels or rain intensities) at which warnings are issued by the relevant authorities and the time/distance until adverse conditions reach the site.</li> <li>Define actions for each warning level and the team responsible for implementing these actions, as well as</li> </ul>	Focal Person     Medical Superintendent to notify     Response Team



	Service Control of the Control of th	
Identify alternative supply as	resources required, for each individual water source.	
Identify alternative supply routers, supplies and storage areas	Water-sensitive content and some parts of production can be relocated to alternative levels or storage facilities.	Chief Pharmacist and his/her team
Back up critical computer data and ensure important paper documents are stored in a	important digital documents and det	The state of the s
and place	center or storage area which is located offsite and not considered to be at risk from the same flood event • Critical paper documents should be stored away from basement and ground floor levels in flood	AMS (Statistics)/ Incharge Computer Cell
Define emergency response Team	Ensure that a sufficient number of their	
	personnel and proper resources will be available at all appropriate times, before, during and after the event, to implement the plan:  • Members of the Team must have authority to implement the requisite response actions.  • The Team should include not only trained staff, but also any auxiliary equipment, spare parts, replacements, and fuel.  • Conduct regular testing of pumps or other equipment, e.g. emergency lighting, backup power supply.  • Ensure adequate fuel is available for emergency equipment. Store fuel safely according to fire safety requirements and ensure it will not be impacted by flood water.  Communication protocols should be clearly established and the means of communication should consider.	Notified Flood Emergency Response Team

Identify equipment, stock and material,	solutions to potential issues such as loss of cell phone battery power without mains power to recharge or cell phone network outages (For the latter, the plan should include alternative means of communication such as the posting information on an internet page, sending emails for mass communication or issuing satellite phones for use between key personnel, etc.)	
dentify below-ground structures	damage is a common occurrence not only due to high intensity rain but also wind events. In such cases, rain infiltrates through the roof into the building, resulting in damaged equipment and stock, predominately in the upper levels of the building.  • Ensure a regular inspection and maintenance plan is being implemented for building envelopes (wall panels, roofing systems, drainage systems, doors, windows), especially for production-critical buildings or those with high-value content	
nundation exposed to flood water	these critical areas.     Redistribute high-value or production-critical equipment to higher levels.	Administration/Medical Superintendent/ Directors concerned

Identify which flood exposed equipment and structures must be anchored to secure foundations		n d s,
Include inspection of my	avoided by pre-event identification of such components. As an example, day tanks for emergency power generators and firefighting pumps, storage tanks, etc.  Besides anchorage, top-up of these elements can also be implemented to prevent flood-induced by the second and the second storage.	Administration/Medical Superintendent Directors concerned
equipment anchorages, conditions of eaves, etc. in the building regular mainter ance plan.	can result in high variations in wind forces on different parts of the building. Identify these critical areas with the support of a qualified structural engineer.  Wind damage of these elements can lead to tear-off of roof panels and exposure of building contents to rain damage. Regular maintenance reduces likelihood of damage. It is recommended to conduct a detailed structural analysis of wind resistance of these components, especially for older buildings. Such an investigation is to be conducted by a qualified structural engineer in accordance with pertinent wind design codes.	Flood Emergency Response Team and Incharge AMS of Works Department alongwith his/her Team
	an, where types, frequency,	Administration/Medical Superintendent/

emergency power generators, etc. in the building regular maintenance plan  Include roof and site drainage systems in the building regular maintenance.	defined. Results of increation	
the building regular maintenance plan  Verify that all installed back-flow valves and closures are fully for the state of	protected when conducting any activities,	Incharge AMS of Works Department
Conduct regular training aver-	regular maintenance plan.	Flood Emergency Response Team and Incharge AMS of Works Department
with participation of local emergency services Include details of utility suppliers (gas, power, water etc.) into flood plan	and implement areas of improvement.	alongwith his/her Team Flood Emergency Response Team and Incharge AMS of Works Department alongwith his/her Team
Include details of various contractors into	necessary for post-event site rehabilitation and resumption of activities.  Contact utility suppliers and become familiar with their response plans, including definitions of the critical flood levels and corresponding actions	Flood Emergency Response Team and Incharge AMS of Works Department alongwith his/her Team
Prepare diagrams/plans sh	This is necessary also for post-event rehabilitation of the site.	Flood Emergency Response Team and Incharge AMS of Works Department alongwith his/her Team
Government's Building Codes Manual	power, gas, water valves and other utilities.  Define responsibilities and action levels for each stage of the event with regards to shut-down levels of the plant.	Flood Emergency Response Team and Incharge AMS of Works Department alongwith his/her Team
	These are companies, who support the site in post-event debris removal, repair of	Flood Emergency Response Team and Incharge AMS of Works Department

Prepare hand tools and personal	damaged infrastructure, etc.	Also M. Li
protective equipment (PPE)  Identify needed sewer lines backflow	used in such situations, e.g. shovels, mattock, submersible pumps, etc. should be stored in an accessible place. Pumps and other mechanical items should be checked and tested, and the results of these should be documented. Pre-purchase blowers and dehumidifiers in order to facilitate the drying out process of building and assets. These items will be in high demand post-event	
industrial, water or sewage water pipeline, septic tanks, etc.	Use drainage drawings and design documentation to determine locations of septic tanks, outlets, etc.	Flood Emergency Response Team and Incharge AMS of Works Department alongwith his/her Team
potentially be damaged by flood water, e.g. facade elements of composite panels, and prepare a stock of replacement material	<ul> <li>Scarcity of construction materials is common after any natural hazard event. Providing a stock of replacement material, as well as onsite expertise to conduct necessary repairs, ensures quick restoration of operations after the flood event.</li> <li>Consider replacement of water-sensitive construction materials, e.g. replace composite panels for façade elements with precast concrete at critical buildings.</li> </ul>	Flood Emergency Response Team and Incharge AMS of Works Department alongwith his/her Team

### II. RESPONSE PHASE:

Once the flood trigger levels and corresponding time-frame for each level have been identified, the corresponding actions and resources at each level can be defined. Activate the contingency/ Emergency Response Plan in the predefined sequence according to the defined hazard (trigger)/ action levels.

Maintain a detailed log of events (diary of log book)  Keep stakeholders informed of situation	maintaining a log book documenting alarm stages, internal communications and actions, photos of measures taken onsite and of the event before, upon and after arrival onsite, etc. will not only facilitate the post-event loss adjustment exercise but also support the emergency response team and site management in improving the response plan.	All concerned
Prepare for safe shut-down of operations	Not only suppliers and customers, but also staff should be informed of developments.  Inform tenants/suppliers to stop goods delivery  Communication function, to both employees as well as to local authorities, media, etc. should be defined within the emergency response team  Critical operation.	Flood Emergency Response Team
Remove all hazardous substances to a safe location	Critical operations and utilities are to be identified as part of the risk assessment conducted during the preparation stage.  These locations, as well as access routes, based on flood law to the conducted during the preparation stage.	Flood Emergency Response Team
Remove portable machinery & equipment to higher levels (groundwater/river flood)	during the preparation stage.  These locations, as well as access	All concerned
wind/rain flood) Remove stocks to higher levels or away	during the preparation stage.	All concerned
Close any manual source to the	These locations, as well as access routes, based on flood levels are to be defined during the preparation stage.	All concerned
revention valves and plug drains and/or ewer lines to prevent sewage backup	- 1390.	Incharge Sanitation alonwith his/her Team

Check and plug toilets (basement toilets in potential flooding areas should be removed and the drain pipe should be plugged)		
solate any low level electrical equipment,	Equipment which is not	
machinery & equipment	cannot be removed must be protected	Incharge Sanitation
Contact storage facility for mobile flood protection systems (if applicable)	oncoto,	alonwith his/her Team
Decuir all buildings		Administration/Medical Superintendent/
	Restrict re-entry to all buildings once	Directors concerned  Administration/Medical Superintendent/
	evacuated and secure the premises	Directors concerned

## III. RECOVERY PHASE:

These actions are to be undertaken once the pertinent authorities have declared conclusion of the flood event and the site may be safely accessed.

Assess and document damages  Contact staff and inform of situation	Document (with photos) extent of damage. This will facilitate the claims process. Communication function, to employees,	Flood Emergency Response Team/ Administration
nitiate clean-up operations when safe to	authorities, media, etc. should be defined within the emergency response team	Flood Emergency Response Team
do so	<ul> <li>Site access only after instructions from pertinent authorities.</li> <li>Remove ruined, moisture-soaked objects from the affected buildings and away from the walls to facilitate the drying out process. Damaged material, which is also most likely to be contaminated, is to be disposed according to local regulations.</li> <li>Hire or purchase blowers and dehumidifiers to assist in the drying out</li> </ul>	Flood Emergency Response Team/ Administration

Have all utilities checked by qualified	process	
persor nel before use	Power and other utilities to be restored only after inspection by qualified personnel to ensure employee safety upon resumption of operations and prevent equipment damage.	Flood Emergency Response Team/ Administration
	If water has been collected in retention pits, test surface water collected therein for potential contaminants prior to	Flood Emergency Response Team/
nform the Administrative Department off all actions, post-recovery efforts, damages etc.	drainage or release into the environment.	Flood Emergency Response Team/ Administration

Prepared By:

AMS (STATISTICS/PGRs/SERVICE MATTERS)/ FOCAL PERSON HRS

Verified By:

Medical Superintendent Lahore General Hospital, Lahore

Approved By:

CE/Principat

PGMI/AMC/PINS/LGH, Lahore & Allied Health Institutions