

# M E M O R A N D U M

GOVERNMENT  
OF  
ST. VINCENT & THE GRENADINES

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**FROM** : Senior Engineering Assistant

**TO** : Hospital Administrator

**DATE** : December 25, 2013

**SUBJECT: FLOODING OF MCMH**

Hospital Administrator, due to the heavy torrential rains that fell on the evening of December 24 into December 25, 2013, several departments at the Milton Cato Memorial Hospital were flooded. The following lists the affected area;

1. Oxygen Plant and central vacuum room
2. CSSD
3. Mat-A
4. Laundry at Mat-A and the adjoining storage areas
5. Office of the Medical Director
6. CT Scan Room
7. Physiotherapy Dept
8. Maintenance Dept
9. Paediatric Ward (N.I.C.U, PCCU, and the recently refurbished area)
10. Male Medical Ward
11. Storage area at Old Physio
12. Lecture Room

From an engineering/technology standpoint, we now need to pay special attention to the following equipment/plant to ascertain the impact from the flood;

➤ CT Scan Machine

Parts of the gantry, table, power supply, UPS and computers in the control room were under water. Mr. Richard, Chief Radiographer, has already sent off an email to Biomedical International regarding the flood and impact on the CT Scan machine.

➤ Oxygen

Oxygen Plant must be check before it powered up, as air compressor and oxygen generator were affected.

➤ Vacuum pump was impacted. It is still running, but it should be checked soonest.

- Sterilizers (CSSD) – (Impacted and must be checked)
- Washer and Drier at Mat-A must be checked.
- Electric Beds in Mat-A must be checked.
- Equipment/furniture in Maintenance and Physiotherapy must be checked.
- Equipment/furniture at Lecture Room must be checked.
- Equipment at the Paediatric/NICU/PCCU and Paediatric Annex need to be checked and returned to original positions.
- Suctions machines on the Male Medical Ward should be checked.
- The generator was not affected, but room must be cleaned.
- The door to the Physiotherapy Department and the door for the Plumber's room, Maintenance Department, need to be replaced.

Several oxygen cylinders, at the front, next to the plant, were toppled. Mr. Bibby and his staff took care of those cylinders. Please make arrangement with the Central and Sewerage Authority to have a dumpster delivered in the cemetery, to allow the staff to dump the debris and damaged good/supplies.

### **Observations**

- Flood lines reached during this episode surpass previous flood line
- Exit for drain running between the generator and VINLEC's transformer, Male Medical Ward, was partially blocked.
- Exit for drain at the back of the Peadiatric Ward was also partially blocked.
- Material/debris blocking drains comprised of wood, bottles, cardboard boxes etc. However, the hospital supplies (disposable sheets, gown, sealed packed etc...) were mainly responsible for the blockage. The flood line was reduced significantly after the blockage was cleared.

Please note the following spares/supplies/equipment required;

<b>Items</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit Price</b>	<b>Cost</b>
1	1.5 mm2 twin cable	1 roll (100 meters)		
2	1.5 mm2 twin & earth cable	1 roll		
3	1.5mm2 single cable	3 rolls		
4	2.5mm2 3-core flex cable	1 roll		
5	13 amp double outlets	15		
6	110v double outlets	15		
7	110v surge protectors	12		
8	220v surge protectors	12		
9	Screw-on connector - yellow	1 box of 100		
10	Screw-on connector - pink	1 box of 100		
11	Screw-on connector - red	1 box 100		
12	10mm2 single cable – Brown	1 roll (100 meters)		
13	10 mm2 single cable- Blue	1 roll		
14	10mm2 single cable - Green	1 roll		
15	4ft fluorescence lamp	6		
16	2ft fluorescence lamp	6		
17	1.5mm clips	5 boxes of 100 ea		
18	2.5mm clips	5 boxes of 100 ea		
19	16x25mm trunking (stick-on)	12 lengths		
20	13 amp single outlet	6		
21	3 phase contactor (220v coil)	2		
22	5000watts Transformer (220v to 110v)	2		
23	Washing machine	1		
24	Drier	1		
25	Large table-top sterilizer/autoclave			
26	100 ft industrial grade water hose	1		
27	50ft industrial grade water hose	2		
28	Tap and Die set	1		
29	Socket set (general plumbing)	1		
30	Tool kit (mechanical)	1		
30	Amp-Probe	1		
31	Soldering irons	5		
32	Electrical drill	1		
33	Electric Sander	1		

34	Electrical tape	10 rolls		
35	Electrical (twist) pliers	6		
36	Electrical multi-meters	5		
37	Steel bit ( varying sizes)	2 sets		
38	Masonry bits (varying sizes	2 sets		
39	Bayonet bulbs	50		
40	Screw bulbs	50		

Yours sincerely,

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Garfield B. Henderson  
Senior Engineering Assistant  
Milton Cato Memorial Hospital