

Appendix B

Damage to Healthcare Facilities

[illegible]

Grenada after Ivan		Area	Building Component												
Damage to Health Facilities (% of item)	(Sq ft)	1	2	3	4	5	6	7a	7b	7c	8	9	10a	10b	11
28th September 2004		foundations	walls	roof frame	roof cover	doors	windows	floor finish	wall finish	ceilings	cupboards	plumbing	elec conduit	elec wiring	suspend slab
6 Grand Bras Medical Centre	3,700	0	0	20	20	0	20	0	20	20	0	0	0	20	0
including:															
bottom clinic	1,000														
top clinic	2,300														
old washroom	200														
gardener shed	200														
<i>cf Ph-I figure (Damage 3%)</i>	4,000														
7 Gouyave Health Centre, St. John	4,700	0	0	20	20	0	20	0	20	20	0	0	0	20	0
including:															
student's quarters	500														
nurse's quarters (back)	600														
main bldg	2,300														
garage	200														
maternity unit	600														
nurse's quarters (front)	500														
<i>cf Ph-I figure (Damage 5%)</i>	4,000														
8 Bellevue Med Centre, St. David's	3,910	0	0	20	40	100	20	0	0	0	0	20	0	0	0
including:															
environmental health officer	740														
clinic	2,282														
nurse's quarters (front)	888														
<i>cf Ph-I figure (Damage 15%)</i>	4,000														
9 Sauteurs Med Cntr, St. Patrick's	4,198	0	0	20	20	0	20	0	0	40	0	0	20	40	NA
including:															
nurse's quarters - I	940														
nurse's quarters - II	888														
main bldg	1,770														
maternity unit	600														
<i>cf Ph-I figure (Damage 25%)</i>	4,000														

Note: Allow for inflation of 10%, Contingencies of 10% and fees of 12.5%

Grenada after Ivan		Common Utilities							
Damage to Health Facilities (% of item)		12a	12b	13a	13b	14	15	16	
28th September 2004		water mains	water tank	sewage main	sewage disposal	gas	telephone	cell phone	
1	General Hospital								
	Damage observed on 09 September 2004:								
	Windows, door, ceilings, roof sheeting								
	Damage (small)								

Grenada after Ivan		Common Utilities									
Damage to Health Facilities (% of item)		12a	12b	13a	13b	14	15	16			
28th September 2004		water mains	water tank	sewage mains	sewage dispose	gas	telephone	cell phone			
2 Princess Alice Hospital											
Main hospital bldg		60	100	NA	0	0	0	NA			
including:											
male ward											
nurse's station											
paediatrics											
reception											
A & E											
pharmacy											
doctor's office											
kitchen											
female ward											
physiotherapy											
maternity											
Admin Bk		60	100	NA	0	0	0	private			
Generator Bldg		60	100	NA	0	0	0	private			
Incinerator		60	100	NA	0	0	0	private			
Mortuary		60	100	NA	0	0	0	private			
X-ray dept		60	100	NA	0	0	0	private			
including:											
building											
walkway											
Doctor's home 1		60	100	NA	0	0	0	private			
including:											
building											
garage											
Doctor's home 2		60	100	NA	0	0	0	private			
including:											
building											
patio											
Pharmacist's Home		60	100	NA	0	0	0	private			
including:											
building											
garage											
Nurse's Dorm		60	100	NA	0	0	0	private			
including:											
building											
garage											
Princess Alice Hospital (total)											
cf Ph-I figure (Damage 75%)											

Grenada after Ivan		Common Utilities							
Damage to Health Facilities (% of item)		12a	12b	13a	13b	14	15	16	
28th September 2004		water mains	water tank	sewage mains	sewage dispose	gas	telephone	cell phone	
3 Psychiatric Hospital, Mt Gay									
Ward D & acute unit (2-storey)		0	0	0	0	0	0	private	
Generator room		0	0	0	0	0	0	private	
Kitchen & store room		0	0	0	0	0	0	private	
Dining rm & occupational thrp'y (2-stry)		0	0	0	0	0	0	private	
Ward C (2-storey)		0	0	0	0	0	0	private	
Administration		0	0	0	0	0	0	private	
Guard huts (2 number)		0	0	0	0	0	0	private	
Covered walkways		0	0	0	0	0	0	private	
Psychiatric Hospital, Mt Gay (total)									
cf Ph-I figure (Damage 20%)									
4 Medical stores									
Ramp		0	0	0	0	0	0	private	
Toilet		0	0	0	0	0	0	private	
Main building		0	0	0	0	0	0	private	
Timber shed		0	0	0	0	0	0	private	
Medical stores (total)									
cf Ph-I figure (Damage 20%)									

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Grenada after Ivan		Common Utilities									
Damage to Health Facilities (% of item)		12a	12b	13a	13b	14	15	16			
28th September 2004		water mains	water tank	sewage mains	sewage dispose	gas	telephone	cell phone			
6 Grand Bras Medical Centre		0	0	NA	0	0	0	NA			
including:											
bottom clinic											
top clinic											
old washroom											
gardener shed											
cf Ph-I figure (Damage 3%)											
7 Gouvave Health Centre, St. John		0	0	NA	0	0	0	NA			
including:											
student's quarters											
nurse's quarters (back)											
main bldg											
garage											
maternity unit											
nurse's quarters (front)											
cf Ph-I figure (Damage 5%)											
8 Bellevue Med Centre, St. David's		0	100	NA	0	0	0	0	0	0	OK
including:											
environmental health officer											
clinic											
nurse's quarters (front)											
cf Ph-I figure (Damage 15%)											
9 Sauteurs Med Cntr, St. Patrick's		0	0	NA	0	0	0	0	0	0	NA
including:											
nurse's quarters - I											
nurse's quarters - II											
main bldg											
maternity unit											
cf Ph-I figure (Damage 25%)											
Note: Allow for Inflation of 10%. Contingencies											

Appendix C

Repair Costs

24 September 2004

Grenada after Ivan

Repair Costs for Health Facilities (in EC\$)

24th September 2004

	Estimated total reconstruction costs EC\$	Estimated repair costs EC\$
1 General Hospital		
Damage observed on 09 September 2004: Windows, door, ceilings, roof sheeting		
Damage (small)		\$270,000
2 Princess Alice Hospital		
Area \$15,000.00 sq.ft (assumed, not measured)		
Rate \$300.00		
Total Cost	\$4,500,000	
Damage 75%		\$3,375,000
3 Psychiatric Hospital, Mt.Gay		
Area \$15,000.00 sq.ft (assumed, not measured)		
Rate \$300.00		
Total Cost	\$4,500,000	
Damage 20%		\$900,000
4 Medical Stores, Mt.Gay		
Area \$15,000.00 sq.ft (assumed, not measured)		
Rate \$250.00		
Total Cost	\$3,750,000	
Damage 20%		\$750,000
5 Richmond Home, Richmond Hill		
Area \$15,000.00 sq.ft (assumed, not measured)		
Rate \$250.00		
Total Cost	\$3,750,000	
Damage 80%		\$3,000,000

6 Grand Bras Medical Centre

Area	\$4,000.00	sq.ft	(assumed, not measured)
Rate	\$250.00		
Total Cost			\$1,000,000

Damage 3%		\$30,000
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7 Gouyave Health Centre, St. John

Area	\$4,000.00	sq.ft	(assumed, not measured)
Rate	\$250.00		
Total Cost			\$1,000,000

Damage 5%		\$50,000
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8 Bellevue Medical Centre, St. David's

Area	\$4,000.00	sq.ft	(assumed, not measured)
Rate	\$250.00		
Total Cost			\$1,000,000

Damage 15%		\$150,000
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9 Sauteurs Medical Centre, St. Patrick's

Area	\$4,000.00	sq.ft	(assumed, not measured)
Rate	\$250.00		
Total Cost			\$1,000,000

Damage 25%		\$250,000
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Total Repair Costs	\$8,775,000	\$3,250,000
	EC\$	US\$

Note: Allow for inflation of 10%, Contingencies of 10% and fees of 12.5%	\$4,424,063
say	\$4,420,000
	US\$

Appendix D

Repair Costs

30 September 2004

	Grenada after Ivan			
	Repair Cost Estimates	Line totals	Facility totals	Facility totals
	30th September 2004	EC\$	EC\$	US\$
	1 General Hospital			
	Damage observed on 09 September 2004:			
	Windows, door, ceilings, roof sheeting			
	Damage (small)	\$270,000	\$270,000	\$100,000

	Grenada after Ivan			
	Repair Cost Estimates	Line totals	Facility totals	Facility totals
	30th September 2004	EC\$	EC\$	US\$
	2 Princess Alice Hospital		\$5,192,370	\$1,923,000
	Main hospital bldg	\$3,173,724		
	including:			
	male ward			
	nurse's station			
	paediatrics			
	reception			
	A & E			
	pharmacy			
	doctor's office			
	kitchen			
	female ward			
	physiotherapy			
	maternity			
	Admin Blk	\$43,200		
	Generator Bldg	\$189,000		
	Incinerator	\$1,000		
	Mortuary	\$4,650		
	X-ray dept	\$40,048		
	including:			
	building			
	walkway			
	Doctor's home 1	\$505,060		
	including:			
	building			
	garage			
	Doctor's home 2	\$259,200		
	including:			
	building			
	patio			
	Pharmacist's Home	\$512,000		
	including:			
	building			
	garage			
	Nurse's Dorm	\$464,489		
	including:			
	building			
	garage			

	Grenada after Ivan			
	Repair Cost Estimates	Line totals	Facility totals	Facility totals
	30th September 2004	EC\$	EC\$	US\$
	3 Psychiatric Hospital, Mt Gay		\$449,000	\$166,000
	Ward D & accute unit (2-storey)	\$395,500		
	Generator room	\$0		
	Kitchen & store room	\$10,500		
	Dining rm & occupational thrpy (2-stry)	\$32,000		
	Ward C (2-storey)	\$0		
	Administration	\$0		
	Guard huts (2 number)	\$1,000		
	Covered walkways	\$10,000		
	4 Medical stores		\$283,300	\$105,000
	Ramp	\$11,300		
	Toilet	\$0		
	Main building	\$110,000		
	Timber shed	\$162,000		

	Grenada after Ivan			
	Repair Cost Estimates	Line totals	Facility totals	Facility totals
	30th September 2004	EC\$	EC\$	US\$
	5 Richmond Home, Richmond Hill		\$1,571,919	\$582,000
	Main building			
	including:			
	basement laundry	\$104,500		
	grond floor (female living quarters)	\$278,900		
	first floor (male living quarters)	\$455,500		
	ground & first floors bath rooms	\$244,500		
	two-storey nurse's quarters	\$300,000		
	two-storey nurse's quarters	\$106,500		
	one-storey nurse's quarters	\$28,069		
	Matron's quarters	\$0		
	Kitchen	\$6,500		
	Nurse's changing room	\$0		
	Physiotherapy unit (occupation, handicraft)	\$44,100		
	Mortuary	\$3,350		

Grenada after Ivan				
Repair Cost Estimates		Line totals	Facility totals	Facility totals
30th September 2004		EC\$	EC\$	US\$
6 Grand Bras Medical Centre		\$116,400	\$116,400	\$43,000
including:				
bottom clinic				
top clinic				
old washroom				
gardiner's shed				
7 Gouyave Health Centre, St. John		\$162,900	\$162,900	\$60,000
including:				
student's quarters				
nurse's quarters (back)				
main bldg				
garage				
maternity unit				
nurse's quarters (front)				
8 Bellevue Med Centre, St. David's		\$160,900	\$160,900	\$60,000
including:				
environmental health officer				
clinic				
nurse's quarters (front)				
9 Sauteurs Med Cntr, St. Patrick's		\$128,700	\$128,700	\$48,000
including:				
nurse's quarters - I				
nurse's quarters - II				
main bldg				
maternity unit				
10 Princess Royal Hospital, Carriacou				
Allow		\$135,000	\$135,000	\$50,000
11 Hillsborough Health Centre				
Allow		\$67,500	\$67,500	\$25,000
Totals			\$8,537,989	\$3,162,000
Allow for inflation of 10%, Contingencies of 10% and fees of 12.5%			\$11,622,338	\$4,305,000
		Line totals	Facility totals	Facility totals
		EC\$	EC\$	US\$