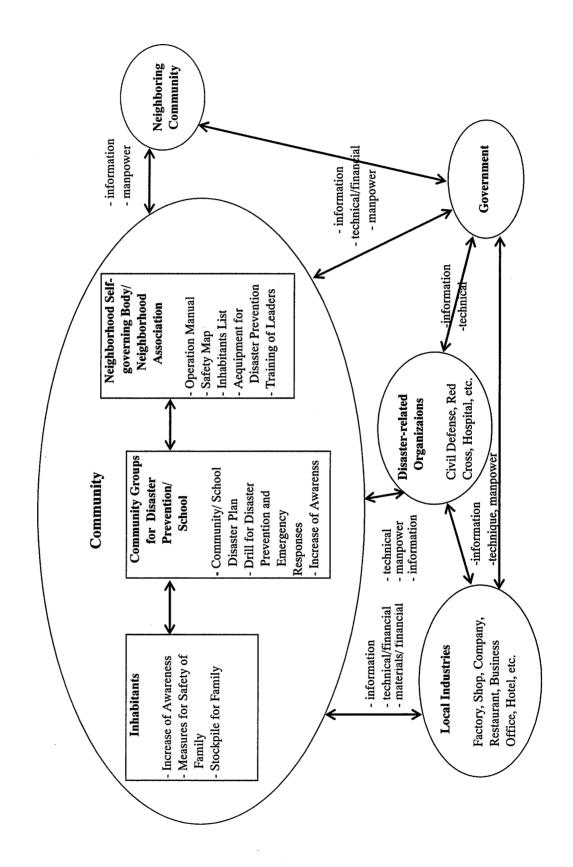
Appendix 5.5.1 Summary of Laws and Regulations for Rehabilitation

Laws and regulations	Descriptions
Decree 1355, 1970	The mayors of a municipality can order a demolition if a construction is about
National Police Code	to be collapsed and if public safety is in risk, or in order to stop a fire or to stop
	any other public calamity.
Decree 1547, 1984	The National Calamity Fund must be used to maintain the environmental
	sanitation during the reconstruction and rehabilitation phases.
Decree 919, 1989	On the other hand, the mayors in the disaster area have the power to command
·	the demolition of any construction that represents a risk for security or health of
	the inhabitants. The National Office for Attention of Disasters would recruit
	studies to evaluate areas where no settlements or buildings can be constructed
	because of environmental danger or risk reasons.
	Section IV, it describes the administrative procedures for land or properties
	acquisition and/or expropriation, when public benefit or social reasons exist.
	The Committee in charge of the reestablishment of minimum conditions for
	environmental sanitation is the National Operative Committee for the Attention
	of Disasters.
	The National Fund of Vicinal Roads will provide the funds to plans of actions
	for the attention of disasters, without co-financing requirements.
Law 388, 1997	According to criteria of public utility, land or properties can be
a.	expropriated. In order to perform this process, national and territorial
	entities, as well as industrial and commercial companies of the state of
	the national, prefecture and municipal orders, have the faculty to
	develop it. The expropriation must be done to fulfill the objectives and
	land uses established on the POT, and the procedure for it is the one
	foreseen in law 9 th of 1989.
	In respect to expropriation by administrative way, it can be done if the
	correspondent administrative authority considers the presence of
	emergency conditions; the institution must pay an indemnity, which is
	equal to the commercial valuation of the property.
	Even though the land usage or distribution is not related directly to
	disasters or rehabilitation projects, the land distribution done in the
	POTs might represent a guideline for the reconstruction of a city.

Source: Summarized by JICA Study Team



Appendix 5.8.1 Project List

1. Implementation Plan - Strengthen Important Buildings (Bogota)

	Program	Project Name	Implementation Agency	Cost (Million Pesos)	Short 2002 2003		/lediu	ım	L	ong	
1.1	Strengthen Emergency Commanding Centers	1.1.A. Seismic diagnosis study of the Ministry o	Ministry of Interior	T		TIT	\Box	П	T	П	T
	Commanding Centers	Reinforcement of the Ministry of Interior	Ministry of Interior	386			+	Ш	\dagger	$\dagger \dagger$	†
		1.1B. Seismic diagnosis study of the OPAD	Cundinamarca Government	1		† †			1	$\dagger \dagger$	†
		1.1.C. Reinforcement of the OPAD	Cundinamarca Government	60				H	$\dagger \dagger$	\parallel	T
		1.1.D. Seismic diagnosis study of Cundinamarca Prefecture		91		\prod			T	\parallel	T
		1.1.E. Reinforcement of Cundinamarca Prefecture	Cundinamarca Government	4,582					\prod	\prod	T
		1.1.F. Seismic diagnosis study of the 19 Locality Offices	Each locality Bogotaá	89			Ш	П	\prod	\prod	1
		1.1.G. Reinforcement of the 19 Locality Offices	Each locality Bogotaá	4,459							Ī
		1.1.H. Seismic diagnosis study of the 8 Municipalities	of Cundinamarca	. 42			Ш				
		1.1.I. Reinforcement of the 8 Municipalities	Each municipality of Cundinamarca	2,129							
1.2	Strengthen Operation Buildings	1.2.A. Seismic diagnosis study of the Police Headquarter La Estanzuela	Police	2		Ш	Ш	$\perp \!\!\! \perp$	4	Ц	
ļ		Reinforcement of the Police Headquarter La Estanzuela Seismic diagnosis study of the Civil Defense	Police	86				$\perp \!\!\! \perp$	\bot	Ц	
	·	Headquarter 1.2.D. Reinforcement of the Civil Defense	Civil Defense	24		\coprod	Ш	4	- - -	4	\downarrow
<u> </u>		Headquarter 1.2.E. Seismic diagnosis study of the Red Cross	Civil Detense	1,176				7	#	\coprod	-
		Headquarter 1.2.F. Reinforcement of the Red Cross Headquarter	Red Cross	76		Ш	Ш	$\perp \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$	Ш	Ц	\downarrow
			Red Cross	3,816				#	\coprod	\coprod	L
		Command of Army 1.2.H. Reinforcement of the Central Command of	willistry of Defense	194			Ш	4	\coprod	4	\perp
1.3	Strengthen Important Hospitals	Army 1.3.A. Seismic diagnosis study of the 38 Hospitals	Ministry of Defense	9,723				#	\coprod	-	\perp
	Ortengulor Important Plospitals	and Clinics in III Level Category 1.3.B. Service	Each Hospital	1,201							
		1.3.B. Reinforcement of the 38 Hospitals and Clinics in III Level Category 1.3.B. Service	Each Hospital	60,062					П	П	\prod
	Strengthen Rescue Operation Buildings	1.3.A. Seismic diagnosis study of the 13 Fire Fighting Stations	Fire fight Bogotaá City	30				T	\parallel	П	П
		1.3.B. Reinforcement of the 13 Fire Fighting Stations	Fire fight Bogotaá City	1,483				+			
		1.3.C. Seismic diagnosis study of the 27 Police Stations	Police	301				П	П		П
		1.3.D. Reinforcement of the 27 Police Stations	Police	15,070							
		1.3.E. Seismic diagnosis study of the 14 Civil Defense Branches	Civil Defense	28							
		1.3.F. Reinforcement of the 14 Civil Defense Branches	Civil Defense	1,412							
		 Seismic diagnosis study of the 124 Army Buildings 	Ministry of Defense	648							П
		1.3.H. Reinforcement of the 124 Army Buildings	Ministry of Defense	32,385							
1.5	Strengthen Hospitals	1.5.A. Seismic diagnosis study of the 15 Hospitals and Clinics	Each Hospital	139							П
		1.5.B. Reinforcement of the 15 Hospitals and Clinics	Each Hospital	6,936			-			#	
		1.6.A. Seismic diagnosis study of the Regional Evacuation Places	Bogotaá City	214				\prod	П		
		1.6.B. Reinforcement of the Regional Evacuation Places	Bogotaá City	10,683			\top				
	Strengthen Other Potential		Bogotaá City	68		111					
		1.7.B. Reinforcement of the 84 Kindergarten Buildings	Bogotá City	3,406			11			╧	
	Strengthen Other Important	1.8.A. Seismic diagnosis study of the 28 Ministries Buildings	Each Ministry	659		711	\dagger				1
		1.8.B. Reinforcement of the 28 Ministries Buildings	Each Ministry	32,936	<u> </u>		T				
1.9		1.9.A. Seismic diagnosis study of the Airport 1.9.A. Reinforcement of study of the Airport	Airport Authorities Airport Authorities	361 18,052		H	#				
		1.9.B. Seismic diagnosis study of the Bus Terminal of Bogotá	Secretary of Transport	90		777	\parallel				1
		1.9.C. Reinforcement of the Bus Terminal of Bogotá	Secretary of Transport	4,520			\prod				
1.10		1.10.A. Seismic diagnosis study of Corferias - Exhibition Center	Bogotá City	108		777					1
		1.10.B. Reinforcement of Corferias - Exhibition Center	Bogotá City	5,393							
1.11 5	Strengthen Food Storage Site	1.11.A. Seismic diagnosis study of Corabastos 1.11.B. Reinforcement of Corabastos	Bogotá City Bogotá City	201 10,097			#				-

1. Implementation Plan - Strengthen Important Buildings (Cundinamarca)

			Implementation	Cost		Ir	npi	em	ent	atio	n Sc	her	Jule)
	Program	Project Name	Agency	(Million		Sho		\Box		ediu			Lo	
l			Agency	Pesos)	2002	200	3 20	104 2	2005	2006	2007	200	200	09 2010
1.12	Strengthen Emergency Commanding Centers in Cundinamarca	1.12.A. Seismic diagnosis study of the Local Major Offices	Government	93										14
		1.12.B. Reinforcement of the Local Major Offices	Cundinamarca Government	1,868			ŧ		+	=		Ш	Ш	\perp
1.13	Strengthen Organizations for Rescue Operation in Cundinamarca	1.13.A. Seismic diagnosis study of the Fire Fighting Stations	Fire fight	7										
		1.13.B. Reinforcement of the Fire Fighting Stations	Fire fight	348	+		-						Ш	
		1.13.C. Seismic diagnosis study of the Police Stations	Police	18							Ц		Ш	\coprod
		1.13.D. Reinforcement of the Police Stations	Police	925			÷	÷				빞	Ш	$\perp \! \! \perp$
		1.13.E. Seismic diagnosis study of the Civil Defense	Civil Defense	2										
		1.13.F. Reinforcement of the Civil Defense	Civil Defense	83					H		÷	•	Н	
		1.13.G. Seismic diagnosis study of the Red Cross	Red Cross	4					77		П			
		1.13.H. Reinforcement of the Red Cross	Red Cross	212								П		
		1.13.I. Seismic diagnosis study of the Army	Ministry of Defense	1							Ш	Ц	Ш	
		1.13.J. Reinforcement of the Army	Ministry of Defense	50								Ц		\perp
1.14	Strengthen Important Hospitals in Cundinamarca	1.14.A. Seismic diagnosis study of the Hospitals and Clinics	Cundinamarca	28							Ц	Ц	\coprod	$\perp \mid$
		1.14.B. Reinforcement of Hospitals and Clinics	Each Hospital in Cundinamarca	1,403					Ħ				$\downarrow \downarrow$	\perp
1.15	Strengthen Hospitals in Cundinamarca	1.15.A. Seismic diagnosis study of the Health Consulting Centers	Each Health Consulting Center in Cundinamarca	120										
		1.15.B. Reinforcement of Health Consulting Centers	Each Health Consulting Center in Cundinamarca	5,976					+	_			H	
1.16	Strengthen Regional Evacuation Sites in Cundinamarca	1.16.A. Seismic diagnosis study of the Regional Evacuation Places	Government	38										
	<u></u>	1.16.B. Reinforcement of Regional Evacuation Places	Cundinamarca Government	1,896										
1.17	Strengthen Other Potential Evacuation Sites in Cundinamarca	1.17.A. Seismic diagnosis study of Schools & Kindergartens	Cundinamarca Government	454										
		1.17.B. Reinforcement of Schools & Kindergartens	Cundinamarca Government	22,687				\coprod	\prod					

2. Implementation Plan - Infrastructure - Bridges Program

	-	Paris at Name	Implementation	Cost	Implementation Schedule Short Medium Long
	Programme	Project Name	Agency	Pesos)	2002 2003 2004 2005 2006 2007 2008 2009 2010
2.1			IUD	2,000	
		2.1.B. Reinforcement of the above bridges (29 bridges)	IUD	29,000	
2.2	Seismic diagnosis and reinforcement of vehicular bridges in emergency road network and out of liquefaction area	2.2.A. Seismic diagnostic study of bridges (69 bridges)	IUD	5,500	
		2.2.B. Reinforcement of the above structures (88 bridges)	IUD	88,000	
2.3	Seismic diagnosis and reinforcement of vehicular bridges in other road network and high liquefaction potential area	2.3.A. Seismic diagnostic study of bridges (11 bridges)	IUD	900	
		2.3.B. Reinforcement of the above structures (13 bridges)	סטו	13,000	
2.4	Seismic diagnosis and reinforcement of vehicular bridges in other road network than above	2.4.A. Seismic diagnostic study of bridges (48 bridges)	IDU	3,800	
	Wilder GOOTS	2.4.B. Reinforcement of the above structures (48 bridges)	IDU	48,000	
2.5	Seismic diagnosis and reinforcement of pedestrian bridges in emergency road network	2.5.A. Seismic diagnostic study of bridges (30 bridges)	IDU	600	
	TION ON	2.5.B. Reinforcement of the above structures (110 bridges)	UQI	55,000	
2.6	Seismic diagnosis and reinforcement of pedestrian bridges in high liquefaction potential area		IDU	50	
		2.6.B. Reinforcement of the above structures (3 bridges)	IDU	1,800	
2.7	Seismic diagnosis and reinforcement of pedestrian bridges in other area	2.7.A. Seismic diagnostic study of bridges (33	IDU	200	
		2.7.B. Reinforcement of the above structures (33 bridges)	IDU	16,500	
2.8	Seismic diagnosis study and reinforcement of vehicular bridges in Cundinamarca	2.8.A. Seismic diagnosis of vehicular bridges (17	INVIAS	500	
	:	2.8.B. Reinforcement of the above bridges (17 bridges)	INVIAS	27,200	
2.9		2.9.A. Seismic diagnostic study of pedestrian bridges (19 bridges)	INVIAS	100	
		2.9.B. Reinforcement of the above structure (19 bridges)	INVIAS	10,000	

3-1. Implementation Plan - Life Line Program - Water Supply System

	129.00 Table 1. 129.00 Table 1		Implementation	Cost		lm	pler	neni	tatio	n S	chec	lule	
	Programme	Project Name	Agency	(Million		hor			ledi			Lor	1 g 9 2010
				Pesos)			2004	2005	2006	200	2000	200	2010
3-1.1		3-1.1.A. Seismic diagnosis study of equipment,	EAAB	600		-		Ιİ				П	
	tanks and Pump stations	structure and foundation (10 stations)	FAAR		\dashv	\vdash	<u> </u>		<u> </u>			. -	
<u> </u>		3-1.1.B. Reinforcement of the above structures:	EAAB	6,000		- -	-				1	1-	
3-1.2	Reinforcement of Transportation and distribution system	3-1.2.A. Seismic diagnosis study of pipeline and the attached structure	EAAB	400							Ш	Ш	Ш
		3-1.2.B. Reinforcement of the above	EAAB	4,000									
		3-1.2.C. Replacement of CIP with sleeve joint of RC, of PVC and of Asbestos Cement with high seismic pipe and joint	EAAB	200,000									
		3-1.2.D. Emergency shutdown valve or new valve installation for minimizing area for water supply	EAAB	20,000									Ш
3-1.3	Reinforcement of Purification plant, Distribution plant	3-1.3.A. Seismic diagnosis study of equipment, structure and foundation	EAAB	740									
		3-1,3.B. Reinforcement of the above as listed below;		7,400							H		
		3-1.3.C. Mechanical, electrical and instrumentation equipment. Inspection and Reinforcement of redundancy of cables, electric generator, pump facility, chemical agent storage tank, chlorination equipment	. EAAB	2,000									
	Reinforcement of Supply Facilities	3-1.4.A. Inspection and Reinforcement of branches for high seismic resistance installed where large deformation of ground is foreseen	EAAB	4,000									
3-1.5	Reinforcement of Other Plant, pipeline and facilities	3-1.5.A. Seismic diagnosis study of plant, pipeline, equipment, structure and foundation	EAAB	2,000							Ш		Ш
		3-1.5.B. Replacement of pipeline, by-pass pipe, block system of distribution network, connection with other watershed or other responses, etc	EAAB	200,000									
3-1.6	Provision of Emergency Water Tanks	3-1.6 A. Provision of Emergency Water Tanks in Bogota	EAAB	69,455			Í						
		3-1.6 B. Provision of Emergency Water Tanks in Bogota	EAAB	10,305			Ī						

3-2. Implementation Plan - Life Lines Programs - Gas Supply Systems

			Implementation	Cost	In	npler	nen	tatio	n S	chec	lule	
l	Programme	Project Name	Agency	(Million	Sho			/ledi			Lor	
			g	Pesos)	2002 200	2004	200	2006	200	2008	200	B 2010
3-2.1	Reinforcement of City Gate Receiving Station	3-2.1.A. Seismic diagnostic study of vessel, spherical gas holders, support structures, foundation	Gas Natural Company	50								
		3-2.1.B. Reinforcement of the above structure, equipment and foundation	Gas Natural Company	200								
		3-2.1.C. Seismic diagnostic study of administrative (control) building	Gas Natural Company	20								
		3-2.1.D. Reinforcement of the above structure	Gas Natural Company	60							Ш	
3-2.2	Reinforcement of Valve station (Carvajal) located in high liquefaction potential area	3-2.2.A. Seismic diagnostic study of vessel, spherical gas holders, support structures, foundation	Gas Natural Company	100								
		3-2.2.B. Reinforcement of the above structure, equipment and foundation	Gas Natural Company	400								
3-2.3	Reinforcement of Trunk and distribution pipeline installed in high liquefaction potential area	3-2.3.A. Seismic diagnosis study of pipeline	Gas Natural Company	200								
		3-2.3.B. Reinforcement or replacement of the above structure	Gas Natural Company	1,000		H						
3-2.4	Installation of other station, and trunk and distribution pipeline	3-2.4.A. Seismic diagnosis study	Gas Natural Company	400								
		3-2.4.B. Introduction of block system	Gas Natural Company	2,000								
		3-2.4.C. Installation of emergency shutdown valve	Gas Natural Company	2,000								

3-3. Implementation Plan - Life Lines Programs - Electrical Supply Systems - CODENSA

			Implementation	Cost	1	mpler	nent	atio	Sche	dule	
	Programme	Project Name	Agency	(Million	She 2002 200			ediu		Long	
<u> </u>				Pesos)	2002 20	13 2004	2005	2000	2007 20	2009	2010
	Seismic diagnosis and reinforcement of 13 substations in high potential liquefaction area	3-3.1.A. Seismic diagnostic study of structure and	CODENSA	260							
		3-3.1.B. Reinforcement of the above structure, foundation (13 stations)	CODENSA	2,600							
3-3.2		3-3.2.A. Seismic diagnosis and reinforcement of structure and foundation	CODENSA	400							
3-3.3		3-3.3.A. Seismic diagnostic study of administrative building, structure and foundation, dam structures (9 structures)		3,000							
		3-3.3.B. Reinforcement of the above structures (9 structures)	EMGESA	10,000							
		3-3.4.A. Seismic diagnostic study of administrative building, structure and foundation (9 structures)	EMGESA	500							
		3-3.4.B. Reinforcement of the above structure (9 structures)	EMGESA	5,000							

3-4. Implementation Plan Life Line Programs Telecommunication Facilities

	1000		Implementation	Cost		lm	ple	mer	tati	on S	che	iule	
	Programme	Project Name	Agency	(Million Pesos)	2002	ho			iledi			Lon	
			***************************************	Pesosi	2002	7	200	7 7	5 200	1 1	7 200	12000	120.0
	Seismic diagnosis and reinforcement of 9 local control stations in high liquefaction potential area	3-4.1.A. Seismic diagnosis study of local control station (9 administrative buildings)	ЕТВ	360									
		3-4.1.B. Reinforcement of the above stations (9 buildings)	ETB	3,600		L						Ш	
3-4.2	Seismic diagnostics and reinforcement for other local control station		ETB	3,000									
	Seismic diagnosis and reinforcement of Mobile stations in high liquefaction potential area	3-4.3.A. Seismic diagnostic study of administrative building, structure and foundation in Kennedy.	CAPITEL	60									
		3-4.3.B. Reinforcement of the above building and structure and foundation	CAPITEL	600									
	Seismic diagnosis and reinforcement of other mobile stations and facilities		CAPITEL	2,000									

4. IMPLEMENTATION PLAN - URBAN DEVELOPMENT

			Implementation	Cost				ation S	ched	lule	
	Programme	Project Name	Agency	(Million		ort		edium		Long	
			rigerioy	Pesos)	2002 2	003 200	14 2005	2006 2007	2008	2009	2010
4.1	Redevelopment of Priority Area	4.1.A. Community Level Road Development	IDU	25,976							
		4.2 Regional Park Development Project	Bogotá City	61,937							
4.2	Road Development Programme	4.2.A. Road Expansion Project for the Building Dense Area	IDU	109,862							
4.3	Open Space Development Programme	4.3.A. Regional Park Construction Project	Bogotá City	27,378					4	Ш	Ш
4.4		4.4.A. Disaster Prevention Pamphlets Creation and Distribution Project	Bogotá City	-							
		4.4.B. Disaster Prevention Drill Execution Project	Bogotá City								
		4.4.C. Community Safety Map Creation Project	Bogotá City								

5. Implementation Plan - Earthquake Engineering Programs

Г <u></u>			Implementation	Cost	Implen	entation Sch	edule
	Programme	Project Name	Agency	(Million	Short	Medium 2005 2006 2007 2	Long
				Pesos)	2002 2003 2004	2005 2006 2007 2	008 2008 2010
5.1	Geophysical study of subsurface structure	5.1.A. Microtremor array measurement for subsurface velocity structure estimation.	DPAE	-			
		5.1.B. Microtremor array measurement for site effect study in municipalities in Cundinamarca.	DPAE	-			
		5.1.C. Seismic reflection study for subsurface velocity structure estimation	DPAE	-			
		5.1.D. Seismic refraction study for subsurface velocity structure estimation	DPAE	•			
		5.1.E. Down hole measurement at accelerograph site for site response evaluation	DPAE	-			
5.2	Geothecnical study for site response and liquefaction evaluation	5.2.A. Liquefaction evaluation in Bogotá and Cundinamarca	DPAE/ INGEOMINAS	-			
		5.2.B. Geothecnical study in municipalities in Cundinamarca for site response evaluation	DPAE/ INGEOMINAS	<u>-</u>			
		5.2.C. Database construction of geothecnical information	DPAE/ INGEOMINAS	-			

6. Implementation Plan Earthquake Engineering Programs

			Implementation	Cost	Implen	nentation Sc	hedule
	Programme	Project Name		(Million	Short	Medium	Long
			Agency	Pesos)	2002 2003 2004	2005 2006 2007	2008 2009 20
6.1	Landslides protection works	6.1.A. La Carbonera	DPAE	4,990			
		6.1.B. Montebello	DPAE	7,671			
		6.1.C, El Espino	DPAE	214			
<u> </u>		6.1.D. Jerusalen	DPAE	469			
l	•	6.1.E. El Paraiso	DPAE	690			

7. Implementation Plan Flooding Programs

			Implementation	Cost	I	nple	nent	atio	n Sc	hed	ule	
	Programme	Project Name	1 '	(Million	Sh			edit			Long	
l	-		Agency	Pesos)	2002 20	2004	2005	2006	2007	2008	2009	2010
Struc	tural Measures			251,790								
7.1	Rio Bogotá	7.1.A. Relocation of Bogotá City Side bank	EAAB									Ш
		m a m 11 i i i i i i i i i i i i i i i i i	EAAB/	171,675		П	П			1		
		7.1.B. Heightening of dikes in both sides	Cundinamarca									
7.2	Río Tunjuelo (Bogota)	7.2.A. Improvement of Flood Control Structure	EAAB	57,225		. [.].				1.		
	Rio Botello (Facatativa)	7.3.A. River improvement	Cundinamarca						Ш			\Box
7.4	Rio Soacha (Soacha)	7.4.A. River improvement	Cundinamarca	22,890		en I	Ш	Ш.			Ш	
11	Qda, Toma (La Carela)	7.5.A. River improvement	Cundinamarca						Ш		Ш	Ш
Non-	Structural Measures											
		El J. F	Bogota/	20								. 1
7.6	Warning System	Flood Forcasting and Warning System	Cundinamarca	20							Ιi	. 1
			Bogota/	962			1					. 1
7.7	Preparation of Flood Risk Map	Hydrological Study	Cundinamarca	902			1		L		\Box	

8. Implementation Plan Industrial Facilities

	Programme	Project Name	Implementation Agency	Cost (Million Pesos)	Short	Medium 2005 2006 2007	chedule Long 2008 2009 2010
8	, ,	8.1.B. Establishment of inspection system for hazardous materials	DAMA/ CAR	-			

9. Implementation Plan - Health Programs in Disaster Prevention (Part 1)

	Programme	Project Name	Implementation	Cost (Million		Sh	ort		Λ	Medium 2005 2006 2007 2				Lo	ng	
		-	Agency	Pesos)	2002	20	13 2	1004	200	3 20	06	2007	2008	20	09 20	010
9.1	Strengthen of the Organizational Capacities for Health Disaster Preparedness		Bogotá	220			-								+	
		9.1.B. A similar unit like 'AED' in the government or Cundinamarca to improve emergency response capacities		330			4									
9.2	Improvement the Emergency Health Information/Communication System	9.2.A. Improving radio communication system to synchronize CRUC with CRU	Bogotá/ Cundinamarca	80			1									
		9.2.B. Expansion of radio communication system to all private hospitals and private health-related entities		30			+									
9.3		9.3.A. Strengthening function of Level III Hospitals E.S.E. to be equipped with Haemodialysis Units, Burn Unit for severely injured victims		2,500			-						<u> </u>		+	
		9.3.B. Enlarging emergency services at Level III Hospitals by extending spaces and increasing staff for the Emergency Unit		1,000			+		_						-	
		9.3.C. Equipping Level III Hospitals with portable medical equipment to enlarge the inpatient receiving capacity in the event of a disaster	Bogotá	200			+									
		9.3.D. Implementing seismic reinforcement work of building structures and functions at Level III Hospitals E.S.E. in Bogota	Bogotá	8,000			Ŧ								+	
		9.3.E. Implementing seismic reinforcement work of facilities at Level II Hospitals E.S.E. in Bogota 9.3.F. Enlarging capacities of water reservoir, fuel	Doyota	10,000	- - - -		+					+1			+	
		sustain themselves for 3 days in the event of a disaster	Bogotá/	300									+		+	
		9.3.G. Reserving open spaces next to Level III Hospitals for setting up temporary inpatient camps to receive overflowing number of injured persons		-			+						+			
9.4		9.4.A. Increasing stock of drugs and medical supplies at Central Store to supply to pre hospital care and Level I and II hospitals for 3 days activities	Bogotá/ Cundinamarca	810			Ť		+				Ī			
		9.4.B. Increasing stock of blood for transfusion at Central Store to supply to Level II and III hospitals for 2 days activities		100	1		1		+					П		
		9.4.C. Increasing stock of disinfectants and instrument for environmental health activities at affected area and camps: Cresol, soaps, etc.		100	+		_		+							
		9.4.D. Increasing stock of general equipment for setting up and operating Medical Aid Stations 9.4.E. Increasing stocks of drugs and medical	Bogotá/ Cundinamarca	7,300	-		-		Ŧ		1		1	H		
		supplies at Level III Hospitals to sustain themselves for 3 days without supplementing in the event of a disaster		230					T							
		9.4.F. Creating an Information System of inventory of stocked medical supplies, drugs and equipment in the Central Store, public hospitals and the Red Cross: This will be designed as a part of general inventory system	Bogotá/	30									-			
	Disastors	9.5.A. Compiling manuals and textbooks on disaster health activities and first aid for education and training of health personnel and community people		420												
		9.5.B. Improvement of health personnel capacity by increasing frequency of education and training activities to professional personnel once a year to four times	Bogotá/	450												
		9.5.C. Improvement of health personnel capacity by increasing frequency of education and training activities to Community Health Volunteers	Bogotá/ Cundinamarca	756												
		9.5.D. Prevailing first aid techniques and disaster preparedness to community people by increasing frequency of seminars	Bogotá/ Cundinamarca	360												
		9.5.E. Implementing triage and disaster medicine training to medical doctors at El Rosario University	Bogotá/ Cundinamarca	20		İ	t						Ė			
	Preparedness Activities for Environmental Health, Disease Prevention and Mental Care System	9.6.A. Strengthening the 'Environmental health and Disease prevention system to prepare for a massive disaster' from central to 'localized/municipal' levels organization, manuals, training and simulations	Bogotá/	100												
		9.6.B. Creating a 'Post-disaster Mental Care System' at Bogota D.C. level organizing mobile mental care teams by contract, fixed clinics at Level III hospitals, and training		100												

10. Implementation Programs Education Plan

			Implementation	Cost	Imple	nentation Sch	nedule
Programme		Project Name	Agency	(Million	Short	Medium	Long
40.4	101-#1			Pesos)	2002 2003 2004	2005 2006 2007	2006 2009 2010
10.1	Staff in charge of Disasters	10.1.A. Teachers Training. Existing Programme provided by DPAE can be evaluated and followed up.	DPAE [*]	-			
	·	10.1.B. Government Staff Training Program for Disaster Management in the Country. Selective staff will be trained.		•			
10.2	School Education	10.2.A. School Curriculum and Extracurricular Activities. Model schools will be assigned. Annual teaching guide will be prepared, teaching aids/side readers will be utilized and extracurricular activities will be implemented.	Secretary of	-			
		10.2.B. School Disaster Management Plan. Model schools will be selected for preparation plan.	Secretary of Education	-			
		10.2.C. Courses for Disaster Management in Universities. Model universities will be selected for experimental courses.	Education	-			
10.3	Social Education	10.3.A. Formulation of community Level Education Programme: The Program will be applied to model communities.	Secretary of Education	-			
		10.3.B. Formation of Self-reliant Groups of Disaster Prevention	Secretary of Education	-			
		10.3.C. Formulation of Community Disaster Plan: Model communities and existing community groups will be selected considering the socio - economic characteristics and disaster history.	Secretary of	-			

11. Implementation Plan Information System Program

			Implementation	Cost		In	pler	nent	atio	n Sc	hed	ule	\neg
Programme		Project Name	Project Name Agency (Millio		lion St		Short		Medium		Lo		g
<u></u>			Agency	Pesos)	2002	2003	2004	2005	2006	2007	2008	2009	2010
11.1	Establishment of Disaster						П	\prod		П	П	П	П
	Management Information System		Bogota City	9,620	-		T-1			1 1	П		1

12. Implementation Plan Monitoring Programs

			Implementation	Cost	Implen	nentation Sch	nedule
	Program	Project Name	Agency	(Million Pesos)	Short	Medium 2005 2008 2007 :	Long
12.1	Monitoring Program	12.1.A. Establishment of Monitoring System at El Espino	DPAE	52 52		2005 2006 2007	2008 2008
		12.1.B. Implementation of Monitoring at El Espino	DPAE	10			
		12.1.C. Establishment of Monitoring System at San Luis	DPAE	25			
		12.1.D. Implementation of Monitoring at San Luis	DPAE	10			
		12.1.E. Improvement of Monitoring System at Carbonera	DPAE	50			
		12.1.F. Implementation of Monitoring at Carbonera	DPAE	10			
12.2	Seismic instrumentation and monitoring	12.2.A. Installation of accelerographs in municipalities in Cundinamarca	DPAE	•			
		12.2.B. Telemetry data communication system of accelerographs in municipalities in Cundinamarca	DPAE	-			
		12.2.C. Data collection and analysis of accelerogram in municipalities in Cundinamarca	DPAE	-			
		12.2.D. Database construction of recorded accelerogram	DPAE	-			

