

Tables

Table 3.3.1 Recommended Task Target Matrix for Effective Exercise and Education (1/2)

Number	Task	Item	Description	Target Group			
				Civil servants	Citizens	Schools	Masons
1	Risk Assessment	Damage Estimation at local level	Dissemination of results of the Estimated Damages in the Valley. ◇ Dissemination Tool: DIG	◎	○		
		Diagnosis of Eq. Resilience at community level	Preparation of precise diagnosis of the potential hazard and resources in the local areas smaller than ward. ◇ Dissemination Tool: Community Watching DIG, PRA	○	◎		
		Preparing and disseminating Hazard Maps	Compiling information by above mentioned diagnosis in the smaller area than ward and disseminating maps to local residents. ◇ Recommended Scale: at least 1/10,000	○	◎	○	
2	Public Awareness Raising	Public Information Dissemination	Utilising mass media, TV radio and newspapers for disseminating disaster mitigation information, introducing activities of Public Authorities. Producing Pamphlets for disseminating Earthquake knowledge and drawing interest of the citizens, promoting mitigation countermeasures among citizens as a final product of community based participatory meetings.		◎		
		Draw up School Curriculum	Draw up School Curriculum in proportion to different levels of class and authorise it for the national standard. As an initial step, a model school to be chosen to delineate curriculum.	○		◎	
		Holding Exhibition for Earthquake Disaster Mitigation	Reinforcing Earthquake Safety Day on Jan. 15 in commemorating 1934 earthquake. Holding Experience-Oriented-Exhibitions on this day to make the participants think about the earthquake mitigation more close to themselves. ◇ Examples of Exhibitions Shaking table experiments for examining building vulnerability, Tips of Earthquake Resistant Buildings Experiencing mock earthquake, Demonstration of preparedness at home, Exhibition and selling of Earthquake Disaster Mitigation Kit, Past mitigation activities municipalities have done.	○	◎	○	○
		Holding Seminars, Workshops	Holding seminars, workshops for raising awareness of the general public. See Figure 3.3.3 for detailed model for the citizens' awareness programme.	○	◎	○	○

Table 3.3.2 Recommended Task Target Matrix for Effective Exercise and Education (2/2)

Number	Task	Item	Description	Target Group			
				Civil servants	Citizens	Schools	Masons
3	Human Resource Development	Administrator Training	Training administrators to gain knowledge for daily services, to increase resilience among the citizens.	⊙			
		Training of local leaders	Training local leaders with specific and practical knowledge for earthquake mitigation in general to lead the community based mitigation activities, rescue and relief in the emergency situation.		⊙	○	
		Conducting Earthquake Drill	Developing the sense of cooperation, and coordination, raising awareness. Practising evacuation, first aid, role playing for residents, school, administrators.	○	⊙	○	
		Mason Training	Train local masons for earthquake safer building technology. Those who have acquired training courses shall receive certifications which ensure higher payment.				⊙
4	Capacity Building for organisations	Emergency Response	Upgrading organisational skills and capacity for emergency response including search and rescue immediate relief etc. Focus on capacity building among the local governments and community based organisations.	⊙	○		
		Strengthening Coordination	Special emphasis will be provided to strengthen the coordination among government organisations and agencies at different levels. Coordination among government and non-government organisations and residents will also be enhanced.	⊙	○		
5	Networking	Formulation of Disaster Management Committee	Disaster management committee will be formed at community level to promote understanding and responsibilities before, during and after disasters.	○	⊙		
		Inter-linkages of different voluntary organisations	Information database will be made on different voluntary organisations (including individuals) which can be effective during emergency situations. Emphasis will be given to establish linkage and coordination among these organisations.		⊙		
6	Establishing infrastructure for effective disaster management	Operation of Information and Communication Centre	Operation of Information and communication Centre can be set up at the Municipality level to enhance resources and information. This centre will act as training cum public awareness and information dissemination centre. During emergency this centre can also act as an emergency coordination cum relief centre.	○	⊙		

Table 8.6.1 Function List of the Database System

Main Menu 1: Bibliography		File format	Main Menu 4: Seismic Damage Analysis		File format
List of maps and documents		Excel	Sub-menu 1: Building Damage Distribution		
Main Menu 2: Natural/ Social Conditions			1 Heavily Damaged Building Number for Scenario EQ I	ArcView	
Sub-menu 1: Natural Conditions			2 Heavily Damaged Building Number for Scenario EQ II	ArcView	
1 Topography	ArcView		3 Heavily Damaged Building Number for Scenario EQ III	ArcView	
2 Slope Gradient	ArcView		4 Heavily Damaged Building Number for Scenario EQ IV	ArcView	
3 Geology	ArcView		5 Heavily Damaged Building Number for Scenario EQ V	ArcView	
4 Geomorphology	ArcView		6 Heavily Damaged Building Ratio for Scenario EQ I	ArcView	
5 Slope susceptibility	ArcView		7 Heavily Damaged Building Ratio for Scenario EQ II	ArcView	
6 Groundwater Table	ArcView		8 Heavily Damaged Building Ratio for Scenario EQ III	ArcView	
7 River	ArcView		9 Heavily Damaged Building Ratio for Scenario EQ IV	ArcView	
8 Faults and Lineaments	ArcView		10 Heavily Damaged Building Ratio for Scenario EQ V	ArcView	
9 Earthquake Distribution in Nepal	ArcView		Sub-menu 2: Casualty Distribution		
Sub-menu 2: Social Conditions			11 Death Toll Density for Scenario EQ I	ArcView	
10 Administrative boundary	ArcView		12 Death Toll Density for Scenario EQ II	ArcView	
11 Locality Classification	ArcView		13 Death Toll Density for Scenario EQ III	ArcView	
12 Population	ArcView		14 Death Toll Density for Scenario EQ IV	ArcView	
13 Population Density	ArcView		15 Death Toll Density for Scenario EQ V	ArcView	
14 Land use	ArcView		16 Total Casualty Density for Scenario EQ I	ArcView	
15 Land Capability	ArcView		17 Total Casualty Density for Scenario EQ II	ArcView	
16 Land System	ArcView		18 Total Casualty Density for Scenario EQ III	ArcView	
Sub-menu 3: Building Distribution			19 Total Casualty Density for Scenario EQ IV	ArcView	
17 Building Distribution (Total)	ArcView		20 Total Casualty Density for Scenario EQ V	ArcView	
18 Building Distribution (Predominant)	ArcView		21 Death Toll Number for Scenario EQ I	ArcView	
19 Building Distribution (Stone)	ArcView		22 Death Toll Number for Scenario EQ II	ArcView	
20 Building Distribution (Adobe)	ArcView		23 Death Toll Number for Scenario EQ III	ArcView	
21 Building Distribution (Brick with Mud Mortar : regular)	ArcView		24 Death Toll Number for Scenario EQ IV	ArcView	
22 Building Distribution (Brick with Mud Mortar : well-built)	ArcView		25 Death Toll Number for Scenario EQ V	ArcView	
23 Building Distribution (Brick with Cement Mortar)	ArcView		Sub-menu 3: Infrastructure Damage Distribution		
24 Building Distribution (RC Frame Masonry : up to 3 stories)	ArcView		26 Damage of Water Supply Network for EQ I	ArcView	
25 Building Distribution (RC Frame Masonry : over 4 stories)	ArcView		27 Damage of Water Supply Network for EQ II	ArcView	
Sub-menu 4: Public Facility			28 Damage of Sewerage Network for EQ I	ArcView	
26 Public Facility (Hospitals)	ArcView		29 Damage of Sewerage Network for EQ II	ArcView	
27 Facility Accessibility (Hospitals)	ArcView		30 Damage of Electricity Network for EQ I	ArcView	
28 Public Facility (Public Schools)	ArcView		31 Damage of Electricity Network for EQ II	ArcView	
29 Facility Accessibility (Public Schools)	ArcView		32 Damage of Telecommunication Network for EQ I	ArcView	
30 Public Facility (Fire Station)	ArcView		33 Damage of Telecommunication Network for EQ II	ArcView	
31 Facility Accessibility (Fire Station)	ArcView		34 Bridge Damage Distribution for EQ I	ArcView	
32 Hazardous Facility (LPG Gas center & Petrol station)	ArcView		35 Hazardous Points of Roads	ArcView	
Sub-menu 5: Infrastructure			36 Accessibility of Roads for EQ I	ArcView	
30 Lifeline (Water supply network)	ArcView		Sub-menu 4: Fire Outbreak		
31 Lifeline (Electricity network)	ArcView		37 Fire Outbreak Rank for Scenario EQ I	ArcView	
32 Lifeline (Electricity: Branch office coverage)	ArcView		38 Fire Outbreak Rank for Scenario EQ II	ArcView	
33 Lifeline (Electricity: Sub-station coverage)	ArcView		Main Menu 5: Miscellaneous		
34 Lifeline (Telecommunication network)	ArcView		Sub-menu 1: Statistics of Past Disasters		
35 Lifeline (Sewerage network)	ArcView		1 Data source: Ministry of Home Affairs (MOHA)	Excel	
36 Road Network	ArcView		2 Data source: Disaster Review 1997 (DPTC)	Excel	
37 Bridge Location	ArcView		Sub-menu 2: Meteorological Features		
38 Road Length by Area	ArcView		3 Precipitation, Wind velocity, Temperature etc.	Excel	
Main Menu 3: Seismic Hazard Analysis			Sub-menu 3: Social Survey		
Sub-menu 1: Ground Model			Map		
1 Location Map of Boreholes	ArcView		4 Location map of Social Survey	ArcView	
2 Ground Model for Seismic Analysis	ArcView		5 Land Development Sites	ArcView	
Sub-menu 2: Scenario Earthquake			6 New Settlement	ArcView	
3 Source Fault Models for Scenario Earthquakes	ArcView		Result		
Sub-menu 3: Peak Ground Acceleration Distribution			7 Report of Social Survey	Word	
4 Peak Ground Acceleration Distribution for EQ I	ArcView		Sub-menu 4: Building Inventory		
5 Peak Ground Acceleration Distribution for EQ II	ArcView		Map		
6 Peak Ground Acceleration Distribution for EQ III	ArcView		8 Location map of Building Inventory Survey	ArcView	
7 Peak Ground Acceleration Distribution for EQ IV	ArcView		Result		
Sub-menu 4: Seismic Intensity Distribution			9 Report of Building Inventory Survey	Word	
8 Seismic Intensity Distribution for EQ I	ArcView		Sub-menu 5: Blueprint Plan		
9 Seismic Intensity Distribution for EQ II	ArcView		10 Blueprint for Kathmandu Valley Earthquake Disaster	Word	
10 Seismic Intensity Distribution for EQ III	ArcView		Main Menu 6: Demonstration		
11 Seismic Intensity Distribution for EQ IV	ArcView		1 Auto demonstration of outline result	PowerPoint	
Sub-menu 5: Liquefaction and Slope stability			Main Menu 7: Video		
12 Water Table for Liquefaction Analysis	ArcView		1 Information Dissemination Video	Media file	
13 Liquefaction Potential Distribution for EQ I	ArcView		Main Menu 8: New Simulation		
14 Liquefaction Potential Distribution for EQ II	ArcView		Step 1: Cakulte Seismic Hazard		
15 Liquefaction Potential Distribution for EQ III	ArcView		Step 2: Dikpy Seismic Hazard		
16 Liquefaction Potential Distribution for EQ IV	ArcView		1 Peak Ground Acceleration Distribution	ArcView	
17 Slope Stability	ArcView		2 Seismic Intensity Distribution	ArcView	
Basemap			3 Liquefaction Potential Distribution	ArcView	
1 Study Area (watershed boundary)	ArcView		Step 3: Cakulte and Dikpy Seismic Damage		
2 Mesh	ArcView		4 Heavily Damaged Building Number	ArcView	
Note:			5 Heavily Damaged Building Ratio	ArcView	
Scenario Earthquake			6 Death Toll Density	ArcView	
I: Himal Nepal Earthquake			7 Total Casualty Density	ArcView	
II: North Bagmati Earthquake			8 Death Toll Number	ArcView	
III: Kathmandu Valley Local Earthquake			9 Damage of Water Supply Network	ArcView	
IV: 1934 Earthquake in present			10 Damage of Sewerage Network	ArcView	
V: 1934 Earthquake in 1934			11 Damage of Electricity Network	ArcView	
			12 Damage of Telecommunication Network	ArcView	

Table 10.2.1 Cost Estimate for Programmes (1/2)

No.	Item s	Cost			Responsible Organization					
		(M JPY)	Breakdown		National Government			Local Government	Private Sectors	
			MM	H/W etc.						
Earthquake Disaster Estimation										
ED-1	Seismological measurements									
ED-1.1	Seismological observation	100	2x5	instruments, install	DMG					
ED-1.2	GPS observation	500	2x20	instruments, install	Survey Dept.					
ED-2	Basic data									
ED-2.1	Regulation of Map data	100	2x5	investigation, data input	Survey Dept.					
ED-3	Geological data									
ED-3.1	Basement structure measurement of Kathmandu valley	500	3x10	investigation	DMG					Nepal Geological Society
ED-3.2	Geological database	500	3x10	data input, software	DMG					Nepal Geological Society
ED-4	Infrastructure database									
ED-4.1	Building inventory/Census	1,000	2x20	investigation, database	MPPW					Nepal Engg. Assoc.
ED-4.2	Life line GIS database	incl PL-6, SE-5			MPPW	NEA	NTC			
ED-4.3	Bridge ledger	incl PL-6			MPPW					
ED-5	Data clearing house	100	2x6	equipment, data input	MOHA	MO Com				
ED-6	Improvement of Damage estimation									
ED-6.1	Historical data gathering and analysis	50	2x5	investigation	DMG					
ED-6.2	Strong motion observation network	200	2x5	equipment, install	DMG					
ED-7	Education and Research									
ED-7.1	Earthquake engineering laboratory	100	2x10	training, seminar	MOSE	MPPW	Tribhuvan Univ.			Nepal Engg. Assoc.
ED-7.2	Training earthquake engineers	100	2x10	training, seminar	MOSE	MPPW	Tribhuvan Univ.			Nepal Engg. Assoc.

No.	Item s	Cost			Responsible Organization							
		(M JPY)	Breakdown		National Government			Local Government		Private Sectors		
			MM	H/W etc.								
Sustainable Mechanism for Development of Disaster Management												
SM-1	Establishment of Legal Foundation	80	5x5		PM Office	MOHA						
SM-2	Establishment of Disaster Management Council											
SM-2.1	National Disaster Management Council	50	3x5		PM Office	NPC	MOHA	MOLD				
SM-2.2	Kathmandu Valley Disaster Management Council	40	3x4		MPPW	MOHA	MOLD			Municipalities		
SM-2.3	Municipality/Ward Disaster Management Council	50	3x5		MOLD					Municipalities		
SM-3	Cooperation between Government and Private sector	35	3x3		MOHA							
SM-4	Preparation of Disaster Management Plan											
SM-4.1	National Plan	80	5x5		NPC	MOHA	MOLD					
SM-4.2	Central government Plans	80	5x5		AIM Industries							
SM-4.3	Kathmandu Valley Plan	50	3x5		MPPW	MOHA	MOLD			Municipalities		
SM-4.4	Municipality Plans	72	3x6	training	MOLD					Municipalities		
SM-4.5	District Plans	50	3x5		MOHA							
SM-4.6	Private Plans	30	3x3									
SM-5	Emphasis of Earthquake Management in National 15 Year Plan	40	2x6		NPC	AIM Industries				Hospital	School	Company
SM-6	Exercises and Education											
SM-6.1	Citizens	65	2x6	training	MOLD					Municipalities		
SM-6.2	School Children	50	3x6	training	MOSE					Municipalities		
SM-6.3	Civil Servants	75	3x5	seminar, training	MOLD					Municipalities		
SM-6.4	Masons	100	3x8	building, training, facilities	MPPW					Municipalities		

No.	Item s	Cost			Responsible Organization					
		(M JPY)	Breakdown		National Government	Local Government	Private Sectors			
			MM	H/W etc.						
Maintain Governance										
MG-1	Establishment of Real Time Earthquake Information System									
MG-1.1	Earthquake Information System	90	2x6	communication equipment	DMG	MOHA				Municipalities
MG-1.2	Seismic Intensity Information System	56	2x6	software	DMG	MOHA				Municipalities
MG-1.3	Earthquake Information Reporting System	65	2x5	communication equipment	DMG	MOHA				Municipalities
MG-2	Assessment of Damage Information System									
MG-2.1	Establishment of Lines of Communications	20	2x3		AIM industries					Municipalities
MG-2.2	Improvement of Daily Business Style	50	3x5		AIM industries					Municipalities
MG-2.3	Preparation of Taking Aerial Photos	10	1x3		Survey Department					
MG-3	Empowerment of Media									
MG-3.1	Seminars and Training	20	2x3		MO Com.	Nepal TV	Radio Nepal			Media/FM Newspapers
MG-3.2	Amendment of National Broadcasting Act	20	2x3		MO Com.					
MG-3.3	Publicizing	20	2x3		MOHA	MO Com.				Media/FM Newspapers
MG-4	Establishment of Emergency Communications									
MG-4.1	Identifying the Defects of Radio Wave Propagation	24	2x3		MO Com.	NTC				
MG-4.2	Digital Mobile Multiplex Channel Access System	310	2x10	equipment, construction	AIM industries					Municipalities
MG-4.3	Simultaneous Reporting System	incl MG-4.2			MOHA					
MG-4.4	Portable Handset	120	2x5	equipment, construction	AIM industries					Municipalities
MG-4.5	Initiate Amateur Radio Network	incl MG-4.2			MO Com.	NTC				Amateur Radio Community
MG-5	Preparation for Emergency Response									
MG-5.1	Control System	20	2x3		PM Office					
MG-5.2	Central Government EOC	1,500	3x8	building, facilities, training	PM Office	AIM industries				
MG-5.3	Municipality/Ward EOC	1,000	3x10	building, facilities, training	MOLD					Municipalities
MG-5.4	Plans/Manuals	100	3x6	training, seminar	MOHA	MOLD	AIM industries			Municipalities
MG-5.5	Facility for EOC	incl MG-5.2, MG-5.3			AIM industries					Municipalities
MG-6	Discipline Public Sector									
MG-6.1	Discipline Public Sector	50	3x5		AIM industries					Municipalities
MG-6.2	Line of Succession	50	3x5		AIM industries					Municipalities
MG-6.3	Preservation of Vital Record	50	3x5		AIM industries					Municipalities
MG-7	Preparation for Recovery									
MG-7.1	Capacity Building	50	3x5		AIM industries					Municipalities
MG-7.2	Review/Evaluation of Existing Priorities and Projects	100	5x5		MPPW					
MG-7.3	Preparedness	100	5x5		AIM industries					Municipalities

Table 10.2.2 Cost Estimate for Programmes (2/2)

No.	Item s	Cost			Responsible Organization						
		(M JPY)	MM	Breakdown	National Government			Local Government	Private Sectors		
				H/W etc.							
Protect Life and Property of the People											
PL-1	Search and Rescue										
PL-1.1	Plan for improvement of research and rescue	100	3x6	sem har, traning	MOHA	MOHA	hh	Municipalities	Red Cross	WHO	
PL-1.2	Acceptance of International Support	40	2x4		MOHA	MOHA	hh		Red Cross	WHO	
PL-1.3	Improvement of Disaster Medicine	500	3x6	equipments, facilities, tran	MOHA	hh			Red Cross	WHO	Hospital
PL-1.4	Food and water supply	100	3x6	equipments, facilities, tran	MOHA	hh					
PL-2	Shelter and Evacuation										
PL-2.1	Plan for shelter, evacuation and removal	100	3x6	training, estate	KVTD	C		Municipalities			
PL-3	Medical Problem										
PL-3.1	Public Health Care	200	3x5	equipments, sem har, tran	MOH				Hospital	Red Cross Assoc.	
PL-3.2	Remains	20	2x3		MOH			Municipalities			
PL-4	Other Functions										
PL-4.1	Security	20	2x3		MOHA	RNA					
PL-4.2	Firefighting	300	3x6	facilities	MOHA						
PL-4.3	Management of volunteers	20	2x3		MOHA			Municipalities			
PL-4.4	Safety Inspections	200	3x6	training, sem har	MPPW			Municipalities	Nepal Engg. Assoc.		
PL-4.5	Debris removal	50	3x5		MPPW			Municipalities	Nepal Engg. Assoc.		
PL-5	Transportation System (Roads and Bridges)										
PL-5.1	Database	200	2x8	software, data input	MPPW						
PL-5.2	Temporary Bridges	500	3x10	construction	MPPW	RNA					
PL-6	Electricity Supply										
PL-6.1	Database	100	2x8	software, data input	NEA						
PL-6.2	Solar Power	500	3x10	equipments, construction	NEA						
PL-6.3	Wind Power	500	3x10	equipments, construction	NEA						
PL-6.4	Diesel generators	1,000	3x10	equipments, construction	NEA						
PL-7	Staging area	500	3x10	estate, facilities	MOHA						

No.	Item s	Cost			Responsible Organization						
		(M JPY)	Breakdown		National Government			Local Government	Private Sectors		
			MM	H/W etc.							
Strengthen Socio-Economic System											
SE-1	Urban Planning										
SE-1.1	Urban Space Allocation Detail Planning	100	3x10		KVTD	MPPW		Municipality			
SE-1.2	Assignment Planning of Intensive Development Areas	50	2x5		KVTD	MPPW		Municipality			
SE-1.3	Assignment Planning of Migration Bypass Routes	50	2x5		KVTD	MPPW		Municipality			
SE-1.4	Urban Zoning for Disaster Mitigation measures	400	2x10	estate, construction	KVTD			Municipality			
SE-2	Transportation Facilities										
SE-2.1	Roads to improve access to the Valley	3,000	3x20	construction		MPPW					
SE-2.2	Roads to improve mobility inside the Valley	2,500	3x20	construction		MPPW					
SE-2.3	Improvement of bridges	2,000	3x20	construction		MPPW					
SE-3	Building										
SE-3.1	Improving Building construction	80	2x10	training		MPPW		Municipalities	Masons		
SE-3.2	National Building Code	50	2x6	seminar, training		MPPW			NepalEngg. Assoc.		
SE-3.2	Training	200	3x8	training, seminar		MPPW		Municipalities	Masons	NepalEngg. Assoc.	
SE-3.4	Inspection of Key Buildings	200	3x10	inspection		MPPW			NepalEngg. Assoc.		
SE-4	Electricity										
SE-4.1	Network improvement	500	2x10	equipments	NEA						
SE-5	Water Supply & Sewerage Facilities										
SE-5.1	Database system	100	2x8	software, data input	NWSC						
SE-5.2	Distribution system by water tankers	50	2x5	investigation	NWSC						
SE-5.3	Preservation of existing wells and spouts	100	3x5	investigation	NWSC			Municipalities			
SE-5.4	Preparation of earthquake resistant design manual	100	3x5	training, seminar	NWSC						
SE-6	Telecommunication facilities	incl MG-4.2						MOCom, NTC			
SE-7	Socioeconomic influence	50	2x5	seminar				MOCommerce			

Table 10.3.1 Implementation Plan (1/2)

No.	Item s	Rating			Implementation Plan (Year)				
		Term	Priority	Reality					
		A/B/C	A/B/C	A/B/C	5	10	30	50	100
Earthquake Disaster Assessment									
ED-1	Seismological Measurements								
ED-1.1	Seismological Observation	B	B	B					
ED-1.2	GPS Observation	C	B	C					
ED-2	Basic Data								
ED-2.1	Regulation of Map Data	A	A	A					
ED-3	Geological Data								
ED-3.1	Basement Structure Measurement of Kathmandu Valley	B	B	C					
ED-3.2	Geological Database	B	A	B					
ED-4	Infrastructure Database								
ED-4.1	Building Inventory/Census	A	A	A					
ED-4.2	Life Line GIS Database	A	A	A					
ED-4.3	Bridge Ledger	A	A	A					
ED-5	Data Clearing House	B	A	C					
ED-6	Improvement of Damage Estimation								
ED-6.1	Historical Data Gathering and Analysis	A	A	A					
ED-6.2	Strong Motion Observation Network	B	A	B					
ED-7	Education and Research								
ED-7.1	Earthquake Engineering Laboratory	B	B	B					
ED-7.2	Training Earthquake Engineers	A	B	B					

No.	Item	Rating			Implementation Plan (Year)				
		Term	Priority	Reality					
		A/B/C	A/B/C	A/B/C	5	10	30	50	100
Sustainable Mechanism for Development of Disaster Management									
SM-1	Establishment of Legal Foundation	B	A	C					
SM-2	Establishment of Disaster Management Council								
SM-2.1	National Disaster Management Council	B	A	C					
SM-2.2	Kathmandu Valley Disaster Management Council	B	A	B					
SM-2.3	Municipality/Ward Disaster Management Council	A	A	A					
SM-3	Cooperation between Government and Private Sector	B	B	B					
SM-4	Preparation of Disaster Management Plan								
SM-4.1	National Plan	A	A	B					
SM-4.2	Central Government Plans	B	A	B					
SM-4.3	Kathmandu Valley Plan	B	A	B					
SM-4.4	Municipality Plans	A	A	A					
SM-4.5	District Plans	B	B	C					
SM-4.6	Private Plans	B	B	B					
SM-5	Emphasis of Earthquake Management in National 5 Year Plan	A	A	A					
SM-6	Community Resilience and Self-Reliance								
SM-6.1	Citizens	A	A	A					
SM-6.2	School Children	A	A	A					
SM-6.3	Civil Servants	A	A	A					
SM-6.4	Masons	A	A	A					

No.	Item s	Rating			Implem entation Plan (Year)				
		Term	Priority	Reality	5	10	30	50	100
		A/B/C	A/B/C	A/B/C					
Maintain Governance									
MG-1	Establishment of Real Time Earthquake Information System								
MG-1.1	Earthquake Information System	A	A	A					
MG-1.2	Seismic Intensity Information System	A	A	A					
MG-1.3	Earthquake Information Reporting System	A	A	A					
MG-2	Assesment of Damage Information System								
MG-2.1	Establishment of Lines of Communications	A	A	B					
MG-2.2	Improvem ent of Daily Business Style	C	A	C					
MG-2.3	Preparation of Taking Aerial Photos	A	B	A					
MG-3	Empowerment of Media								
MG-3.1	Seminars and Training	A	A	A					
MG-3.2	Amendment of National Broadcasting Act	B	B	C					
MG-3.3	Publicising	A	A	A					
MG-4	Establishment of Emergency Communications								
MG-4.1	Identifying the Defects of Radio Wave Propagation	A	B	A					
MG-4.2	Digital Mobile Multi Channel Access System	A	B	B					
MG-4.3	Simultaneous Reporting System	A	B	B					
MG-4.4	Portable Handset	A	B	C					
MG-4.5	Initiate Amateur Radio Network	A	B	A					
MG-5	Preparation for Emergency Response								
MG-5.1	Control System	A	A	B					
MG-5.2	Central Government EOC	A	A	B					
MG-5.3	Municipality/Ward EOC	A	A	A					
MG-5.4	Emergency Plans/Manuals	A	A	A					
MG-5.5	Facility for EOC	A	A	B					
MG-6	Discipline Public Sector								
MG-6.1	Discipline Public Sector	B	A	C					
MG-6.2	Line of Succession	A	A	B					
MG-6.3	Preservation of Vital Record	B	B	C					
MG-7	Preparation for Recovery								
MG-7.1	Capacity Building	C	B	C					
MG-7.2	Review/Evaluation of Existing Priorities and Projects	C	B	B					
MG-7.3	Preparedness	C	B	C					

Table 10.3.2 Implementation Plan (2/2)

No.	Item s	Rating			Implem entation Plan (Year)				
		Term	Priority	Reality	5	10	30	50	100
		A/B/C	A/B/C	A/B/C					
Protect Life and Property of the People									
PL-1	Search and Rescue								
PL-1.1	Plan for Improvement of Research and Rescue	B	A	B					
PL-1.2	Acceptance of International Support	B	A	C					
PL-1.3	Improvement of Disaster Medicine	C	B	C					
PL-1.4	Food and Water Supply	B	A	C					
PL-2	Shelter and Evacuation								
PL-2.1	Plan for Shelter, Evacuation and Removal	C	B	B					
PL-3	Medical Problem								
PL-3.1	Public Health Care	B	A	A					
PL-3.2	Remains	C	B	C					
PL-4	Other Functions								
PL-4.1	Security	B	B	A					
PL-4.2	Firefighting	B	B	B					
PL-4.3	Management of Volunteers	B	B	C					
PL-4.4	Safety Inspections	B	B	B					
PL-4.5	Debris Removal	B	B	C					
PL-5	Transportation System (Roads and Bridges)								
PL-5.1	Database	A	A	A					
PL-5.2	Temporary Bridges	B	B	C					
PL-6	Electricity Supply								
PL-6.1	Database	A	A	A					
PL-6.2	Solar Power	B	C	C					
PL-6.3	Wind Power	C	C	C					
PL-6.4	Diesel Generators	B	B	C					
PL-7	Staging Area	A	B	B					

No.	Item s	Rating			Implem entation Plan (Year)				
		Term	Priority	Reality	5	10	30	50	100
		A/B/C	A/B/C	A/B/C					
Strengthen Socio-Economic System									
SE-1	Urban Planning								
SE-1.1	Urban Space Allocation Detail Planning	A	A	A					
SE-1.2	Assignment Planning of Intensive Development Areas	C	A	B					
SE-1.3	Assignment Planning of Migration Bypass Routes	C	B	C					
SE-1.4	Urban Zoning for Disaster Mitigation measures	C	A	B					
SE-2	Transportation Facilities								
SE-2.1	Roads to Improve Access to the Valley	C	A	A					
SE-2.2	Roads to Improve Mobility Inside the Valley	C	A	B					
SE-2.3	Improvement of Bridges	C	A	B					
SE-3	Building								
SE-3.1	Improving Building construction	A	A	A					
SE-3.2	National Building Code	A	A	A					
SE-3.2	Training	A	A	A					
SE-3.4	Inspection of Key Buildings	A	A	A					
SE-4	Electricity								
SE-4.1	Network Improvement	B	A	B					
SE-5	Water Supply & Sewerage Facilities								
SE-5.1	Database System	A	A	A					
SE-5.2	Distribution System by Water Tankers	B	B	C					
SE-5.3	Preservation of Existing Wells and Spouts	A	A	B					
SE-5.4	Preparation of Earthquake Resistant Design Manual	B	A	B					
SE-6	Telecommunication Facilities	A	B	B					
SE-7	Socio-Economic Influence	B	A	B					

Figures

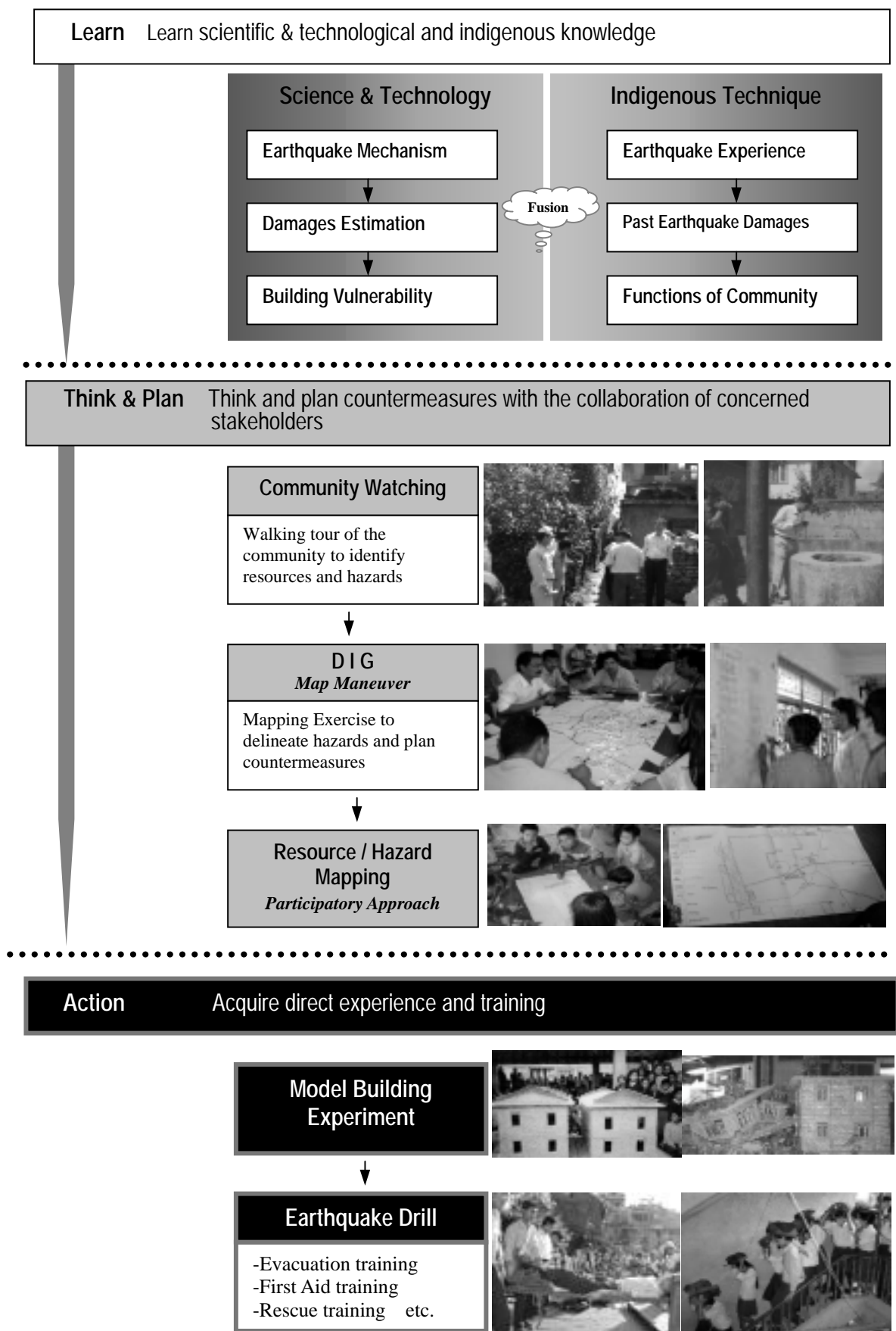


Figure 3.3.2 Model Plan for Earthquake Disaster Mitigation Activities

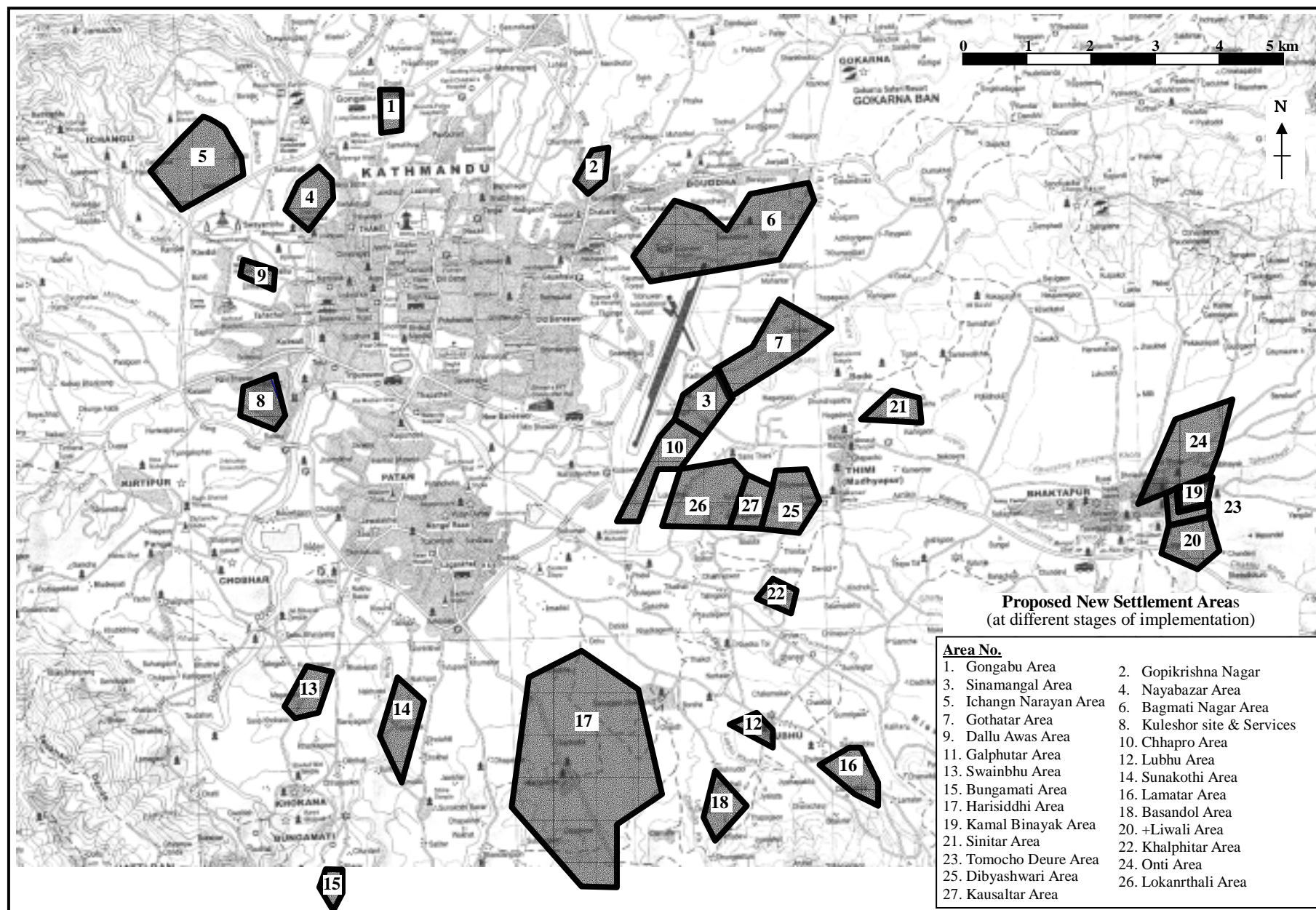


Figure 5.5.1 Overview of New Settlement Areas in the Kathmandu Valley

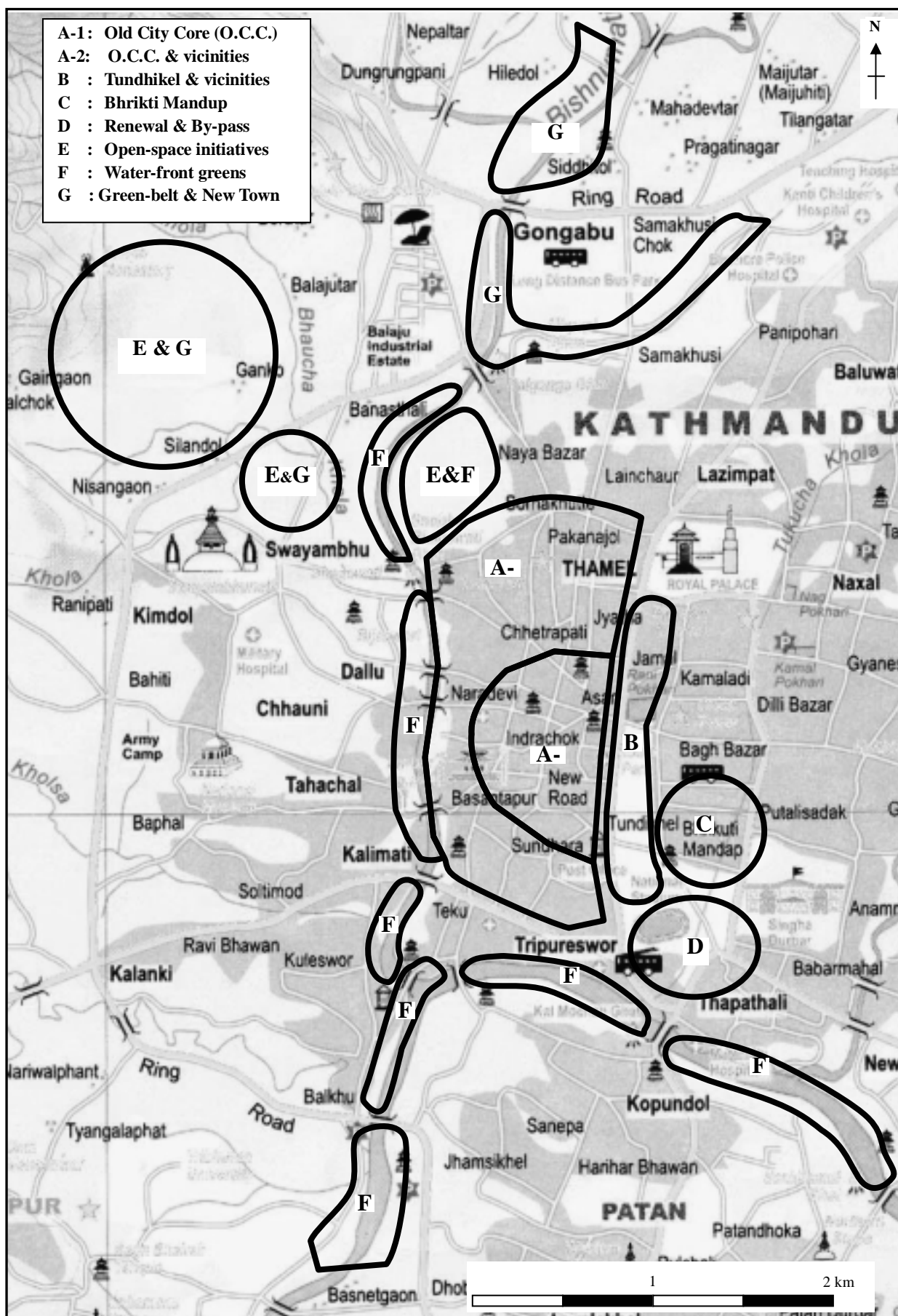


Figure 6.1.1 Development Zones for Disaster Mitigation

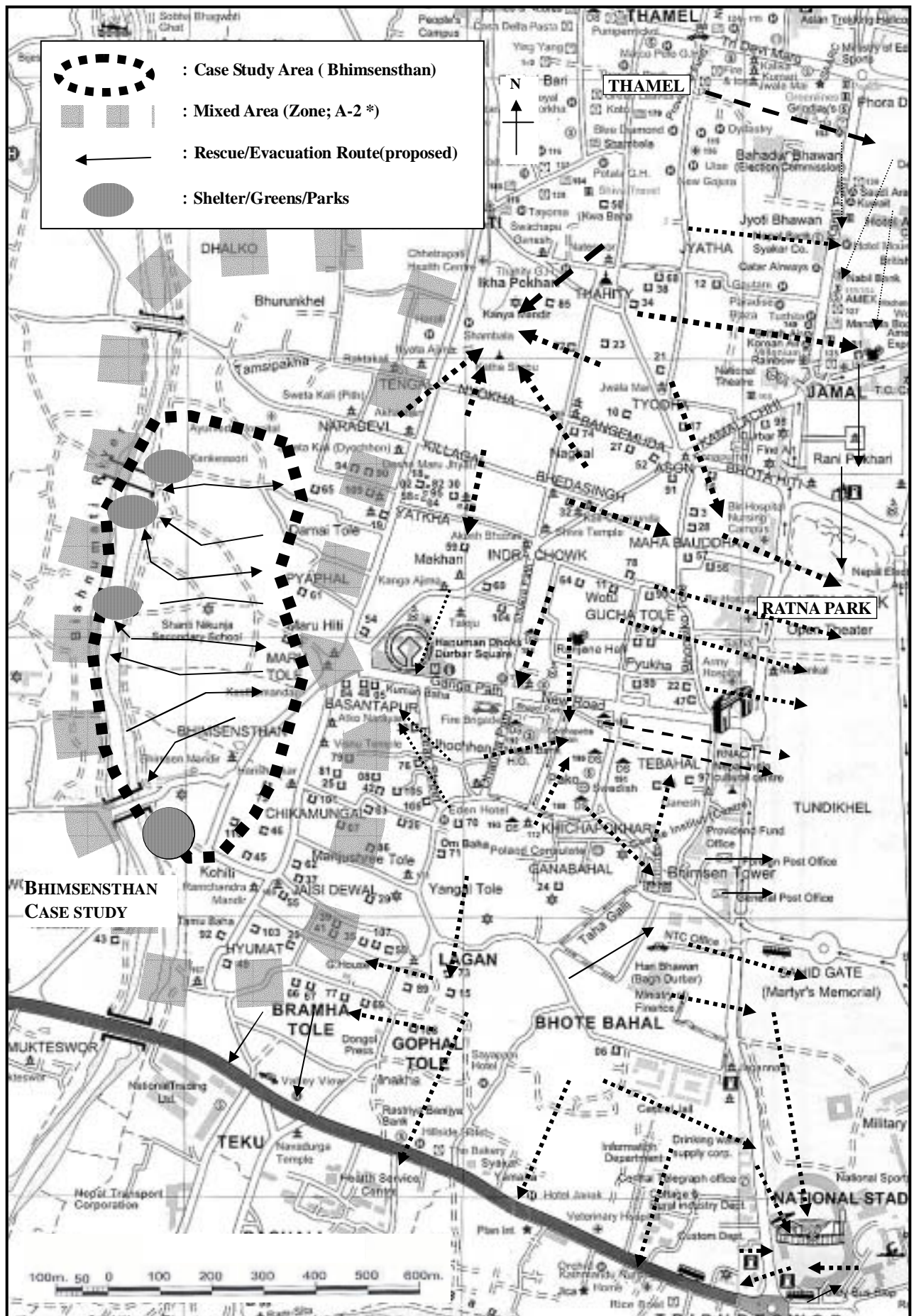


Figure 6.6.2 Case Study for Rescue/Evacuation and Shelter in City Core Area; (Zone A-1,2)

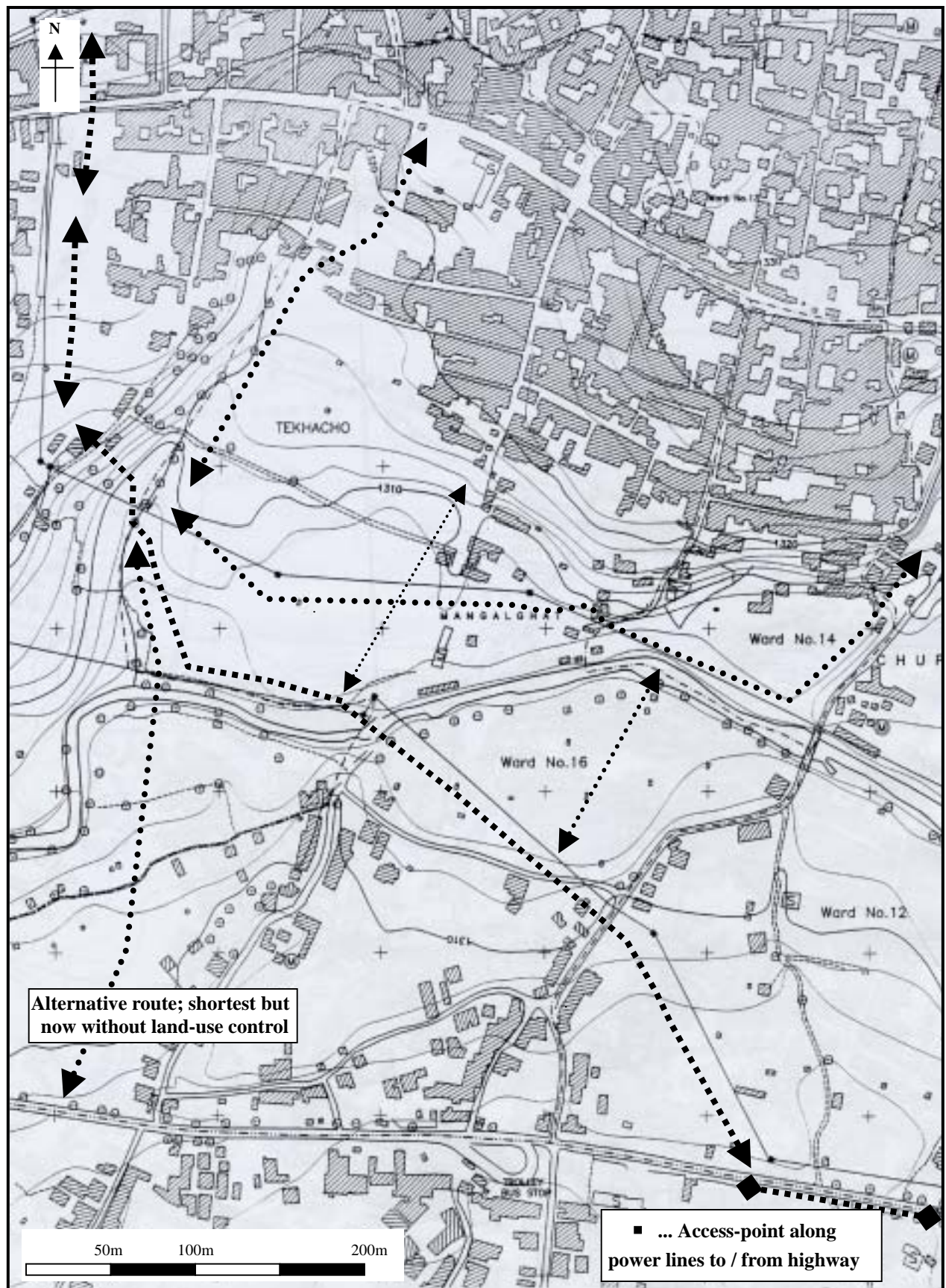


Figure 6.6.3 Disaster Mitigation Bypass Routes for Rescue and Evacuation
(in case of designating along electric power lines, in fringe of Bhaktapur built-up area)