























i. Ha	zards Identification	
	Hazards	Location
	Earthquakes	whole city
	Floods	8 places
	Landslides	761 places
	Typhoons	whole city
	Fires	7 places
	Drought	whole city

(a). Ph	ysical Vulnerability / Capacity
	1.Basic Services (water, telephone, electricity, gas,)
	2. Emergency Facilities (fire brigade, police ambulance)
	3.School Building and Health Facilities
	4.Building of High Occupancy (theatre, hall, church, mo
	5. Historical Monuments and Assets (museum, library)
	6. Transportation Facilities (railway, bus route)
(b). Sc	cial Vulnerability / Capacity
	1. Well-being of Individuals
	2. Literacy & Education
	3. Peace and Security
	4. Social Equity
	5. Ethnic Minority
	6. Infants and Ageing People
	7. Disadvantaged and Marginalized Group
	8. Disabled & Handicapped
	9. Public Health



Hazards	Location	Probability	Intensity	Impact
Earthquakes	whole city	high	medium	medium
Floods	8 places	high	"	"
Landslides	761places	"	"	low
Typhoons	whole city	,,	high	medium
Fires	7 places	low	medium	low
Drought	whole city	high	high	"

Establishment of Priorities	
Hazards	Priorities
Earthquakes	1 st
Floods	2 nd
Landslides	3 rd
Typhoons	4 th
Drought	5 th
The Acceptable Level of Risks	high

	ity/ Capacity Ass. (pii. VCA)
Physical Factors	Assessment (Capacity)
Basic Services (Lifelines)	high
Emergency Facilities	
School Building & Health Facility	>>
Buildings of High Occupancy	>>
Historical Monument	>>
Fransportation Facilities	>>

Social Factors	Assessment (Capacity)
Well-being of Individuals	high
Literacy & Education	"
Peace and Security	>>
Social Equity	>>
Ethnic Minority	no
Infants and Ageing People	low
Disadvantaged and Marginalized Group	no
Disabled & Handicapped People	low
Public Health	high

	1 135C55IIICIIL (Capacity)
Economic Status of Individuals	high
ndividual Economic reserves	"
Levels of Debt	low
Degree of Access to Credit, Loans & Insurance	e high
Degree of Economic Diversification	>>
Access to Critical and Basic Socio-Eco. Infrast.	"
Situation of Agricultural Production	"









2. Social Vulnerability / Capacity (Prevention)

Earthquakes: to impart anti-seismic awareness knowledge – to retrofit or dismantle the vulnerable houses Floods: to provide the knowledge of flood prevention and awareness programs – to predict heavy rainfall for all. Landslides: to remove public houses, institutions, health centers from landslide areas – to warn infants ageing and disabled to have access to landslide threatened areas Fires: regular inspection of fire prone settlement – removal of dangerous materials from social settlement areas Drought: construction of reservoirs – protection of natural water resources Typhoons: awareness raising programs for elders – construction of hurricane walls

. Е	conomic Vulnerability / Capacity (Prevention)
	Earthquakes: proper site selection for economic infrastructure
	retrofitting of industrial and business centers and
	financial institutions.
	Floods: establishment of industries, business complexes, financial
	institutions in non-flooding areas – constructions of
	basins, dykes, barriers, flood walls, sabo or earth dams,
	flood
	Landslides: protection of forests in and around landslide
	prone areas – prohibition of constructing eco. infr in
	landslide threatened areas
	Fires: provision of sufficient fire protection measures in
	economic infrastructures – prohibition of economic in
	the fire prone zones.
	Typhoons: improvement and retrofitting of buildings to resist
	wind, storm shutters and upgrading roofs.



Earthquakes: protection of natural resources & biodiversity Floods: preservation of forests and afforestation in flood prone areas – diversion of floods to non-natural resource site Landslides: conservation of forests and afforestation in bare land – identification of landslide prone areas and their protection Fires: protection of forests constructing fire lines – construction of fire break zones for environmental sites protection











	X. Findings and Recommendations
1.	Disaster risk identification as a first prerequisite for Disaster Risk Reduction Management System
2.	Implementation of Land use Planning has made the city possible to adjust increasing population, migration, demand for settlements without aggravating the disaster situation.
3.	Provision of providing hazard maps to residents, library resources and disaster data access through print and computer media.
4.	Provision of vulnerability mitigation incentives such as loans, subsidies and grant programs.
5.	Management of technical assistance for resolving hazard risk issues and reduction measures
6.	Preparation and implementation of vulnerability reduction plans for disaster risk reduction
7.	Formulation of Disaster Countermeasures Basic Act with plans for disaster risk reduction – Basic, Operation and Local Plans.
8.	Designation of public awareness day and week: 1 st Sept – "Disaster Management Day", 30 th Aug to 5 th Sept – "Disaster Management Week" and 17 th Jan – " Disaster Management and Volunteer Day





2. Mar emp tour poli	nagement of workshops and seminars for government officials and ployees of private business and the general public, and "disaster bus rs" to politicians and the decision makers for the effective plans and
	cies.
3. Org for	anization of community groups and conducting team building exercises disaster risk reduction
4. Mat neig	nagement of 'Town Watching' programs and workshops for phorhood blocs and organizations
5. Mar Nov spec	hagement of 'Fire Prevention Week' twice a year in March (1-7) and in vember (9-15) just before spring and winter seasons and provision of cial fire fighting drills on 26 th Jan. every year.



]	For Immediate Response			
SN	Proposed Activities	Implementing Agency	Supporting Agency	Time Frame
1	Disaster risk identification and assessment	Related ministries and Departments	Cabinet, NPC	Dec. 2005
2	Formation of land use planning law	Ministry of Land Reforms and Mgmt.	Ministry of Law and Justice; Cabinet	Dec. 2006
3	Preparation of hazard maps and publicity	Ministry of Home Affairs and related ministries	Cabinet, NPC	Dec.2005
4	Vulnerability mitigation incentives	"	"	"
5	Hazard risk technical assistance unit	>>	Ministry of Finance	"
6	Preparation of vulnerability reduction plans	"	Cabinet, NPC	"

7	Formulation of disaster countermeasure act.	"	Ministry of Law and Justice; NPC	Dec, 2006
8	Designation of public awareness day and weeks	Ministry of Home Affairs	Cabinet	Dec. 2005
9	Formation of local voluntary organization groups	>>	Cabinet; Law and Justice	Dec. 2005
10	Formation of Self Defense Community Organization	>>	>>	Dec. 2005
11	Formulation of Land Conservation Act	Ministry of Land Reforms and Mgmt.	Cabinet; Ministry of Law and Justice	Dec. 2006
12	Making municipality responsible for primary disaster countermeasures	Ministry of Home Affairs	"	Dec. 2005
13	Management of residents' responsibility for disaster countermeasures	>>	>>	"

14	Delegation of power to Municipality for disaster prevention plans	"	22	"
15	Establishment of Fire Fighting Unit in Municipality	Ministry of Home Affairs	Cabinet; Ministry of Law and Justice	Dec. 2005
16	Designated area Disaster Prevention Plans on Request	22	"	"
17	Formulation of Sabo Law, Landslide Law, Fire Laws, Building Standard Laws	22	"	Dec. 2006

1	Weather Forecasting	Ministry of Water	Meteorologica	Continuou
	(accurate and timely)	Resources	l Department	S
2	Management of Workshops, Seminars for	Ministry of Home Affairs	Cabinet; Related	>>
	employees and public community groups		Ministries	
3	Team Building Exercises	"	>>	,,
4	Town Watching Program	>>	>>	,,
5	Fire Drills and Educational Activities	22	"	>>
6	Disaster Reduction Leaders' Training Course	"	>>	>>
7	Fire Prevention Week and Special Fire Fighting Drills	>>	>>	>>

Asian Disaster Reduction Center and Visiting Research Program

The establishment of ADRC as a hub of regional cooperation in Asia is a landmark in the history of Disaster Reduction. Most of the South Asian countries are poor and the burden of disaster impacts fall on these countries because disaster impacts are severe on poverty. So, considering this situation, ADRC has initiated a stupendous task of disaster reduction in this region – the only way left to survive the disaster impacts. To achieve the goal, ADRC has launched, inter alia, VR Program.

ADRC's attempt to achieve some of its goals by creating the network of VRs in member countries is a practical and far-sighted attempt which is useful to ADRC as well as member countries. The most important problem that we have been facing in our country is lack of human resource of disaster reduction management which is being fulfilled, to some extent, by VR Program. It has provided opportunity to learn disaster related issues and challenges in the region thereby enhancing the knowledge of disaster risk reduction.

Contd.

Further, VR Program is an effective tool for collecting disaster information from member countries. They should be further enhanced and mobilized properly to establish strong relationship between ADRC and the member countries. In my opinion, VR should be given investigative and intensive type of research works.

As a VR, I got chance to enhance my knowledge of disasters at this organization and will try to continue it in my country too. During my stay, I got homely environment which made my stay abroad easy and comfortable. I appreciate you all ADRC's staffs for your continuous, dependable, altruistic and justifiable cooperation extended to me.

I am grateful to you all and will remain grateful for ever. In fact, this has been a part and parcel of my life.