

IRAN

NATIONAL SUMMARY REPORT

I D N D R

Contact:	Mr. Ali Bakhsh Jahanbakhsh	Phone: + 98-21-657247
	Secretary	
	National Committee for Reduction	Fax: +98-21-61312168
	of Natural Disasters	
	Ministry of Interior	Telex:
	Fatemi Street	
	Tehran	
	Iran	

SECTION A: PROFILE

(This section contains relevant basic information about your country,
Please complete and check the information already included.)

1. Composition of National Committee (Focal Point):

(Please list the names of the institutions represented and indicate in the brackets the number of members for each group)

Ministries	<ul style="list-style-type: none">- Ministry of Interior- Ministry of Energy- Ministry of Agriculture- Ministry of Health & Medical Education- Ministry of Roads and Transportation- Ministry of Housing & Urban Development- Ministry of Jihad of Construction- Ministry of Commerce	Non-Governmental Organizations	<ul style="list-style-type: none">- Red Crescent Society of the I.R. of Iran
			[]

Academic & Research Institutions	<ul style="list-style-type: none">- Institute of Geophysics, University of Tehran- I.R. Iran Meteorological Organization- International Institute of Earthquake Engineering and Seismology- Department of Environment- Geological Survey of Iran	Media	<ul style="list-style-type: none">- Islamic Republic of Iran Broadcasting
			[]

Private Sector		Insurance	
None	[]	- Iran Insurance Company	[]

Public Services (e.g. meteorological, etc)		Others	
- Municipalities	[]	<ul style="list-style-type: none">- Atomic Energy Organization of Iran- Center for Construction & Building Research- Institute for Environmental Studies, University of Tehran.- Social Security Organization- University of Medical Sciences.	

2. Internal organization of the National Committee

(Please describe hierarchy, responsibilities, coordination and cooperation mechanisms in natural disaster reduction activities.)

See Appendix

3. Prevailing hazards

Type	Location	Affected Population
Earthquake	North, South, N.West & N.Eastern parts of the country	Approximately 47 Million people
Floods	North, South, West & Eastern parts of the Country	Approximately 40 Million people
Rise of Caspian Sea level	29 Cities in Northern Coastal Plains of Iran.	Approximately 2.5 Million people

(Please attach additional information if necessary)

4. Recent natural disasters

Type	Location	Affected Population	Losses
Earthquake	Zanjan & Gilan Provinces N. of Iran June.20,1991	Approximately 500000 people	2100 x 10 ⁹ Rials
Flood	All over the country feb, 1993	Approximately 3000000 people	122 x 10 ⁹ Rials
Rise of Caspian Sea level	Northern Coastal Plains in Gilan & Mazandaran Provinces	Approx. 2.5 Million people	192.5 x 10 ⁹ Rials
Floods of Zabol: (8-11 Feb 1991) (23-26 March 1992)	S. Eastern Iran	Approximately 60000	57 x 10 ⁹ Rials

5. National socio-economic conditions

- Population: 57/200000 people up to march 1993
- Gross-National Product (GNP): 68048 x 10⁹ Rials
- Per-Capita Income: 972989 Rials

6. Availability of assistance to other countries in the field of natural disaster reduction.

(Please list potential resources, scientific expertise, technology, etc.)

I.R. of Iran can provide following assistances and technical services to all interested countries in general and to the countries in the region in particular. These services can be categorized as follow:

- A: Geoscience studies including, Geology, Seismotectonics, Geotechnique, Seismology and Seismic Engineering, Geophysics and Civil Engineering.
- B: Water Resources Studies including, Hydrology & Hydrogeology.
- C: Social Services including, Rescue & Relief, Health and Medical Care Services.
- D: Post - Natural Disaster Social Effect Management.
- E: Advanced operational Rescue & Relief Services by the Red Crescent Society of the I.R. of Iran, based on their 50 years of experiences in these areas.

7. International assistance required for natural disaster reduction

(Please indicate requirements for scientific expertise, technology, resources etc.)

International assistance required by NCHDR are as follows:

- 1: Immediate access to information gathered for natural disaster monitoring and mangement, especially those obtained from satellites.
- 2: Accessability to advanced warning systems in the areas of natural disaster reduction and transfer of technology in these areas.
- 3: Information sharing about advanced and successful techniques in the areas of early-warning prevention, relief and reconstruction and advance methods of integration of Disaster Prevention in national development plan of the country through international educational programmes and financial resources.
- 4: implementation of a regional network for exchange of information about natural disaster especially with

Afghanistlan, countries locat'ed around Caspian Sea and other neighbouring countries.

SECTION B: STRATEGIES AND ACTIVITIES

(This section deals with current or planned strategies and activities.)

1. Steps towards achieving the 3 main Decade targets

- (a) Comprehensive national assessments of risks from natural hazards, with these assessments taken into account in development plans;

According to the surveys made 31 different natural disasters are affecting the country which can be categorized as follows:

- A: Geological Hazards including, Earthquakes , Landslides and Gravity slides.
- B: Climatological Hazards including, Floods , Droughts, Hurricanes and Atmospheric Hazards.
- C: Environmental Hazards including, Desertification, Environmental degradation and Vegetation Infestation. some special instructions and regulations were also approved for incorporation of risks into national development plans which will be explained later.

- (b) Mitigation plans at national and/or local levels, involving long-term prevention and preparedness and community awareness; and

see Appendix II

- (c) Ready access to global, regional, national and local warning systems and broad dissemination of warnings.

The present warning system of the country is limited to the present speed range of telex, fax and telephone systems. Providing information services from capital to provincial centres is much faster than the rate of similar services within the fields. This situation will gradually be changed and will reach to a better status in the framework of the communication network expansion plan.

Our communication with regional and global stations is not yet satisfactory and we hope this weakness may be overcome through full connection with global and regional warning systems.

2. Present national plan for natural disaster reduction

a) Time span covered:

It is expected that NDR plan will be completed by year 2000

b) Agencies, institutions and organizations involved:

43 organizations including Ministries, Organizations, Research and Scientific Institutes are directly involved with NDR.

c) Implementing agencies:

9 Specialized subcommittees are supervising technical and study projects as well as executive steps to be taken by provincial or local committees with participation of all authorities involved.

d) Funds available for implementation:

⁹
In 1993 a 320 x 10 Bials , was allocated to General Directorate for Unforeseen Events, this amount was spent for natural disaster prevention measures and studies , damage reimbursement and reconstruction purposes .There is a possibility of extra-budgetary allocations.

3. Legislation introduced and enacted in relation to natural disaster reduction

Laws related to the establishment of National Committee of NDR

- Regulation to execute the above mentioned law
- Instructions for particular cases
i.e. technical standard for sand and gravel exploration in river channels, criteria setting for construction of along - the - coast & intersecting structures, parallel to or over the rivers, consideration of construction limit along River channels, etc.
- Law for compensation of damages resulted from floods.
- Regulation for General Directorate for Unforeseen Events, (CHUE).
- Enactment of building code under the standard no.2800

4. Disaster mitigation activities completed or underway:

a) Identification of hazard zones: hazard assessment

Time of project:

- 1: Geological and floods hazards study projects.
- 2: Semi - detailed & complementary study of Landslides' Damage.
- 3: Seismic Zoning of the I.R of Iran.
- 4: Seismic & Seismotectonic studies of the I.R of Iran.
- 5: Geotechnique study of I.R . Iran.
- 6: Vulnerability & Safety Studies of Building Structures.
- 7: General & Specialized Training.
- 8: Holding of Seminars & Conferences.
- 9: Publication of papers, books and International contacts.

Status:

- Items 7,8,9 are fully implemented.
- Item 1 to 6 are under implementation.

Participating institutions in the country and/or on the international level:

At the National Level.

Costs of project:

1500 Million Rials

Sources of funding:

The Government

Implementing agencies:

- 1: Geological Survey of Iran .
- 2: Ministry of Interior.
- 3: International Institute of Earthquake Engineering & Seismology.
- 4: Ministry of Housing & Urban Development .
- 5: Ministry of Energy.

Address (telephone and fax-number) of the agency in charge:

Focal point
National Committee on NDR
Ministry of Interior
Fatemi Ave, , Tehran, Iran.
Tel: + 98-21-657247 Fax: +98-21-61312188 6

b) Monitoring, prediction and warning

Title of project:

- 1: Comprehensive flood studies of Iranian Watersheds in Khuzestan Gilan & Ilam provinces
- 2: Seismicity potential and Landslide studies (in Critical regions)
- 3: combating desertification studies (in Central and South Central Parts of Iran)
- 4: Environmental pollution studies : in Central and south - eastern part of the country.

Status:

- 1: X20 to X100 completed depend on importance of the area
- 2: X10 to X90 completed depend on importance of the area
- 3: X20 to X100 completed depend on importance of the area
- 4: Under implementation.

Participating institutions in the country and/or on the international level:

At the National level

Costs of project:

10 Billions of Rials

Sources of funding:

the Government

Implementing agencies:

Implementing agencies :

- 1: Ministry of Interior
- 2: Ministry of Energy
- 3: Geological Survey of Iran
- 4: International Institute of Earthquake Engineering & Seismology

Address (telephone and fax-number) of the agency in charge:

Focal point
National Committee on NDR
Ministry of the Interior
Fatemi Ave, , Tehran, Iran.
Tel: + 98-21-857247 Fax: +98-21-81312166

c) Short-term Protective measures and preparedness

Title of project: Construction of Protective Walls along Caspian Sea Coast,
Reconstruction and improvement of 1st & 2nd class Roads,
Reconstruction and maintenance of available bridges,
Reconstruction and maintenance of Power Transmission Network
Reconstruction and maintenance of Water pipeline network
Reconstruction and maintenance of School & Public Buildings
Status: Reconstruction and maintenance of building used in Agricultural sector

Status :
Completion rate for the 4814 projects in the above - mentioned areas
in average is 86%

Participating institutions in the country and/or on the international level:

At the national level

Costs of project:

9
110 x 10 Bials

Sources of funding:

The G overnment

Implementing agencies:

**The G overnment Executive Agencies, Private Sector,
Deputy Governor General & Offices for Development Affairs**

Address (telephone and fax-number) of the agency in charge:

**Focal point
National Committee on NDR
Ministry of Interior
Fatemi Ave, , Tehran, Iran.
Tel: + 98-21-657247 Fax: +98-21-81312168**

d) Long-term preventive measures

Title of project: 1- Protective Walls, earth dams, Watershed management projects, River channel in flood-pron areas of the country
2- Reinforcing of Infrastructural Buildings, control and monitoring and Control of buildings under construction phase
3- Provision of the equipments required for measurements of Natural Disasters at the national level

Status:

1: 360 Implemented
2: 330 Implemented
3: 350 Implemented

Participating institutions in the country and/or on the international level:

At the national level

Costs of project:

9
270x10 Bials

Sources of funding:

The Government

Implementing agencies:

Ministry of Energy, Ministry of Housing & Urban Development,
I.R.Iran Meteorological Organization, International Institute
for Seismology & Seismic Engineering, Geological Survey of Iran
Ministry of Jihad of Construction

Address (telephone and fax-number) of the agency in charge:

Focal Point
National Committee on NDR
Ministry of Interior
Fatemeh Ave, , Tehran, Iran.
Tel: + 98-21-657247 Fax: +98-21-61312166

e) Land-use and risk management

Title of project: To be able to carry out Land- use projects the following studies are being undertaken:

- 1: Coordinating and Concentration of technical potentials present in the country for reconstruction of regions damaged by 31st June 1990 earthquakes.
- 2: Geological Hazard Potentials Reconnaissance Study Project in Gilan Province

Status:

- 3: Definition of topics for Comprehensive flooding studies.
- 4: various projects for Land, Flood & Earthquake management in different parts of the country

- 1: Under implementation
- 2: Completed
- 3: Completed
- 4: Completed

Participating institutions in the country and/or on the international level:

- 1: Housing Foundation
- 2: Flood Committee
- 3: Deputy Governor General's offices for development affairs
- 4: Consultant Engineers in private sector
- 5: UNDP

Costs of project:

Totally: 540000000 Rials

Sources of funding:

- 1- Governor General's offices
- 2- Government
- 3- UNDP

Implementing agencies:

- 1: Private Sectors
- 2: Flood Committee,
- 3: Local Authorities

Address (telephone and fax-number) of the agency in charge:

Focal point
National Committee on NDR
Ministry of Interior
Fatsai Ave, | , Tehran, Iran.
Tel: + 98-21-687347 Fax: +98-21-61312166

f) Public education and information

Title of project:

- 1- Establishing of M.A. level studies in Crisis Management with the cooperation of University of Tehran.
- 2- Establishing of M.A. level studies in Seismology with the cooperation of University of Mashhad
- 3- Conducting short-term courses on River Engineering Projects, Seismic Engineering; Climatological Zoning for Mayors, Employees of Municipalities and staff of technical bureau of provinces
- 4- Preparation of Radio & TV programmes for improvement of public knowledge

Status:

- 1: Under Execution with the capacity of 20 students
- 2: Under Execution with the capacity of 25 students
- 3: Completed with the capacity of 85 students

Participating institutions in the country and/or on the international level:

National level

Costs of project:

- 1: 250 x Million Rials
- 2: 250 x Million Rials
- 3: 100 x Million Rials
- 4: Covered by I.R.I.R.

Sources of funding:

The Government

Implementing agencies:

Ministry of Interior with cooperation of Ministry of Housing & Urban Development , Geological Survey of Iran, Ministry of Energy, Institute of Geophysics of University of Tehran, Atomic Energy Organization of Iran, International Institute of Earthquake Engineering & Seismology

Address (telephone and fax-number) of the agency in charge:

Focal point
National Committee on NDB
Ministry of Interior
Fatemi Ave., Tehran, Iran.
Tel: + 98-21-657247 Fax: +98-21-81312168

5. Plans to fully achieve Decade targets by the end of 1999

(As in 4 above, for each area of activity [i.e., hazard zoning/assessment, monitoring, preparedness, etc] please indicate as applicable, the project title, the participating institutions in the country and/or on the international level, the costs of projects, the sources of funding and the implementing agencies.)

1: Title of project: preliminary Evaluation on Zonation of Risk, and its integration into the National Development plan.

Status: Under execution

Costs of project: 50 Million Rials

Sources of Funding: The Government

Implementing agencies: universities, scientific & Research Institutes

2: Disaster Mitigation:

Execution of projects for reduction of natural disasters impact

Status: Under execution

Costs of project: 500 x 10⁹ Rials

Sources of Funding: The Government

SECTION C: INTERACTIONS

(This section focuses on international involvement in the IDNDR.)

1. Publications on IDNDR-related subjects:

(E.g. manuals, brochures, bulletins and other publications of relevance to IDNDR. Please mention title, author/institution, place and year of publication)

see Appendix III

2. IDNDR meetings and conferences held or planned:

(Please indicate, date, location, organizing agency, national and international participation.)

see Appendix IV

3. Current or planned partnerships and cooperation related to IDNDR with other countries

(Please indicate Governments, National Committees, Institutions or Organizations involved.)

see Appendix V

SECTION D: EVALUATION

(This section analyses national progress and outlines possible improvement.)

1. Overall evaluation of national disaster mitigation programmes including, but not limited to, those initiated after IDNDR and achievements up to now

(Please elaborate on whether the targets set by the National Committee, if any, the national disaster mitigation plans or other IDNDR activities have been met. If not, please indicate reasons.)

Following the legal establishment of NCNDR with the participation of all related ministries, organizations and agencies, it is foreseen that the natural disaster will find its proper role in the formulation and implementation of the second National Socio-Economic development plan and natural disaster is being addressed in a comprehensive manner from relief to development. This is a major achievement towards the goals of the Decade.

2. Review of the IDNDR

(Critique of the Decade to date and suggestions for improvement/modifications in the second half.)

1. The Natural Disaster reduction strategies must be adopted in the framework of continuum from relief to development with the necessary support from International Financial Institutions and international community.
2. The equal information sharing on disasters among the countries regardless of their technology gap.
3. More developed regional cooperation is urgently needed which entails information sharing and implementation of joint projects in the areas of disaster prevention and mitigation. In this regard, the regional mechanisms in the developing world should have the financial and technical support from United Nations as well as international community.
4. More efficient and practical cooperation mechanisms should be developed among neighbor countries in the area of disaster prevention and mitigation.

5. More attention should be paid to the interrelationship between the environment degradation and natural disaster ,specially when the degradation occurs as the result of mass movement of population or over use of natural resources.
6. Special attention to the particular problems of the mega-cities in case of natural disasters.
7. strengthening of the world stand-by capacity for disasters, specially on a regional basis.
8. Permanent and regular cooperation relations among NCNDRS through DHA.
9. A follow up mechanism to implement the recommendations of the world conference on Natural Disaster Reduction.

**Organization of National committee for Natural Disaster
Reduction (NCNDR)**

H.E. Minister of Interior is the Chairman of NCNDR.

NCNDR consists of nine Specialized Subcommittees(SSC)
as follows:

1. SSC for Earthquakes and Landslides.
2. SSC for Vegetation infestation, Vegetation Diseases
and Cold.
3. SSC for Rangeland Revival and Coping with Drought.
4. SSC for Flood Prevention , Sea level Rise and
River overflows.
5. SSC for reducing Air Pollution.
6. SSC for Storm & Hurricane Hazards.
7. SSC for Rescue & Relief
8. SSC for Loss Compensation.
9. SSC for Health & Medical Care.

In addition to subcommittees mentioned above a
Coordinating Subcommittees ,has been established to study
and analyse proposals, recieved from all above - mentioned
SSCs and to present them with its final evaluation to NCNDR
for decision making.

Besides, a mechanism for Reduction of effects from natural
disasters is also present through the SSC's and their
affiliated Provincial Committees has been put into action
that provides their active participation in the following
subjects:

- 1- Study of Planning and assignment of Executive
Agency .
- 2- Establishment of Data Bank .
- 3- Conducting Specialized Training Courses.
- 4- Promotion of Public Knowledge and awareness.
- 5- Coordinating Executive & research Sectors.

Steps taken in these areas are as follows:

- 1: Legislation that make USC 2800 an obligatory standard for construction companies and institutions at the national level.
- 2: Setting Instructions Documents to be supervised by Municipalities and other related executive organizations for incorporation of Technical & Safety measures.
- 3: Establishment of Specilized subcommittees acting on natural disaster problems as mentioned in item (a). These subcommittees are assigned to function in 5 major areas which includes, (1) Information (2) Study and Research planning (3) Coordinating & Supervision, (4) Education & Training and finally (5) public awareness.

These specialized subcommittees which are active in their special fields of activities, are supervised by NCRND.

- 4: Implementation of prevention project in the framework of civil and non - civil engineering structures is one of the most important objectives of national development plan. To reach this goal 30 % of total budget for disaster management equivalent to 380 x 10 Bials were used for reduction and prevention purposes.

In addition to reports and papers published in mass media, a series of seminars and conferences were also held in the last 3 years in order to promote the knowledge of both public & specialists, more information is appeared in the detailed report.

- Cooperation with UNDP in the following areas:

- 1: Comprehensive Seismological Study undertaken by UNDP & International Institute of Earthquake Engineering and Seismology. (IIEES)
- 2: Preparation and Documentation of National preparedness Plan.
- 3: Preparation of the Comprehensive Flood prevention study.

Publication for sale

- 1- The Manjil - Rudbar Earthquake of June 21 , 1990 Preliminary Report ,
Publication No-IIEES 60-90-2 Aug 1991 (English).
- 2- The Manjil - Rudbar Earthquake of June 21 , 1990 Technical Report 1 ,
Publication No. 70-91-1, May 91 (Farsi - English).
- 3- Public Awareness for Encountering the Earthquake Hazards Publication,
Report No. 70-91-2, September 1991, (Farsi).
- 4- Darab , Fars Earthquake of Aban 15 , 1369 , Reconnaissance Report
Publication No. 70-91-3, Oct. 1992, (Farsi).
- 5- Shahr Kord- Lordegan Reconnaissance Report, Report No, 71-92-3,(Farsi)
- 6- Study of Possibility of Volcanic Activity of Damavand Mountain ,
Report No. 71-92-4 (Farsi).
- 7- Construction, Repair and Retrofit of Stone Masonary , Report No.
71-92-8 (Farsi).
- 8- Let's Reduce Earthquake Hazards, 1st Edition Nov. 1991 , and Edition
May 92, IIEES , Public Awareness Department, (Farsi).
- 9- Earthquake Predicion (Present Status), Report No. 71-92-37, (Farsi).
- 10-Proceeding of The First International Conference on Seismology and
Earthquake Engineering (SEE-1), May 27-29,1991, 4 Volumes.
- 11-Stochastic Response of Pile Foundations, Report No. 72-93-2
- 12-Anatomy of Seismograms (Book).
- 13-A New Method of Analysis For the Dynamic Interacian of Dam - Reservoir
Using Euler - Lagrangian Approach, Report No. 72-93-3.

Basic Publications (Not for sale)

- 1- Seismic Risk Prevention and Mitigation Program in the Islamic Republic of Iran, December 1990, Report NO.IIEES, 69-90-4, (English)
- 2- The New Design for Low and High Capacity Dynamic Triaxial Apparatus, Als Komak Panah, Report NO. IIEES 71-92-32, (Farsi)
- 3- Iranian National Seismic Network (INSN),(Design Specification), Report No. IIEES- 70-91-4,Oct,1991, (English & Farsi).
- 4- Mianeh Noise Study Report, Report No 70-92-6, March 1991 (Farsi).
- 5- Astara Noise Study Report, Report No. 70-92-7,March 1991 (Farsi).
- 6- Geotechnical Earthquake Study of Nar-Kangan Gas Industry, Report No. 71-92-1,(Farsi).
- 7- Quarterly Bulletin of IIEES Library Spring 92 , Report No. 71-92-2 (English & Farsi).
- 8- Darnage Vulnerability of Tehran Social and Human Aspects, Report No. 71-92-3 (Farsi).
- 9- IIEES Earthquake Reconnaissance Plan, Report No. 71-92-6 (Farsi).
- 10-Study of Liquefaction in Astaneh, Report No.71-92-9, (Farsi).
- 11-Seismic Data File for Iran, Report No. 71-92-10 (Farsi).
- 12-Noise study: Step by Step. For Seismic Station, Report No. 71-92-15 (Farsi).
- 13-Shiraz Noise Study Report, Report No. 71-92-16,(Farsi).
- 14-Masjed-Soleiman ,Khoramshahr, Abadan Noise Study report, Report No. 71-92-17, (Farsi).
- 15-Songor Noise Study Report, Report No. 71-92-18, (Farsi).
- 16-Kashmar Noise Study Report, Report No. 71-92-19, (Farsi).
- 17-Mahabad Noise Study Report, Report No. 71-92-20, (Farsi).
- 18-Salmas Noise Study Report, Report No. 71-92-21, (Farsi).
- 19-Tabriz Noise Study Report, Report No. 71-92-22, (Farsi).
- 20-Scientific Earthquake Exhibition, Report No, 71-92-23, (Farsi).
- 21-Earthquake Drill Plan in School ,(No.1), Report No. 71-92-24,(Farsi).
- 22-3 Channels Strong Motion Recording in High - Rise Building Report No. 71-91-34, (Farsi).

Publications under preparation

Appendix IIIC

- 1- Behavior of R/C Water Towers in Rasht During Manjil - Rudbar Earthquake, Report No. 71-92-11, (Farsi)
- 2- Optimum Seismic Resistant Design of Steel Frames, Report No. 71-92-12, (Farsi)
- 3- Seismic Protective Systems for Rural Housing Report No. 71-92-13, (Farsi)
- 4- Landslide Zonation in Iran, a Review of the Problem of the previous Studies in Iran, (Vol.I), Report No. 71-92-25, (Farsi)
- 5- Landslide Zonation in Iran, (Vol.II), Principles of Identification & Classification of Landslides, Report NO. 71-92-25, (Farsi)
- 6- Landslide Zonation in Iran, (Vol.III), Analytic Methods in Safety Evaluation of Natural Slopes, Report NO. 71-92-25, (Farsi)
- 7- Landslide Zonation in Iran, (Vol.IV), Geological, Seismological and Geophysical Studies of Gavkhsb Landslide
- 8- Landslide Zonation in Iran, (Vol.V), Case - Study, Back analysis of gavkhsb Landslide, Report NO. 71-92-25, (Farsi)
- 9- Landslide Zonation in Iran,, (Annex Vol) , Geotechnical Investigation and Laboratory Test of Toockabon Landslides, Report NO. 71-92-25, (Farsi)
- 10- Zonation of Liquefaction in Iran (Vol.I), Liquefaction & Zonation Methods, Report NO. 71-92-31, (Farsi)
- 11- Zonation of Liquefaction in Iran (Vol.II), Site Characterization and Potential of Occurance, Report NO. 71-92-32, (Farsi)
- 12- Zonation of Liquefaction in Iran (Vol.III), Methods of Study and of Principles of Potential assessment for Microzonation Report NO. 71-92-31, (Farsi)

Housing condition of Earthquake Stricken Areas in Guilan Province
Before The 31st June 1990 Earthquake, Governor General office of
Guilan Province. (June 1991).

Social, Economical and Cultural Impacts of Guilan Earthquake of Khordad
1369 (June, 1990) in Guilan Province's Urban Areas, by Governor General
Office of Guilan Province and Guilan University (June, 1991).

Social, Economical and Cultural Impacts of Guilan Earthquake of Khordad
1369 (June, 1990) in Guilan province's Urban Areas by Governor General's
Office of Guilan Province and Guilan University (June, 1991)

Survey on Population and Manpower Structure in Earthquake Stricken
Areas of Guilan Province due to June 1990 Earthquake, Governor
General Office of Guilan Province. (June 1991)

Social, Economical and Cultural Impacts of Guilan Earthquake of Khordad
1369 (June, 1990) in Guilan province's rural areas by Governor
General office of Guilan Province and Guilan University (June, 1991)

Appendix IV

- 1: The 1st International Conference on Seismology & Seismic Engineering by Iranian IIEKS 27-29 May, 1992.
- 2: The 1st International Conference on Natural Disaster in Urban Areas, by Municipality of Tehran, 11-13 May 1991.
- 3: First Training Workshop for Disaster Management
Jointly organized by The Ministry of Foreign Affairs ,
Ministry of Interior and UNDP, 14-20 Sept, 1992.
- 4: Conference on Data Evaluation and Earthquake
Monitoring International Institute of Earthquake
Engineering & Seismology , 22-27 Nov 1992.
- 5: The first National Seminar on Flood Hazard Prevention
Techniques, MFA, MOI and ESCAP
Ahwaz, Iran, 10-12 April 1993.
- 6: the 8th Seminar on Earthquake prediction by a joint
cooperation of the, Center for Natural Disasters of
Iran, Ministry of Housing & Urban Development, Earthquake
Prediction Research Group of Berlin (Germany), Ministry of
Regional Planning and U.D of Germany.

- 1: By the establishment of NCNDR and its subcommittees and following official introduction to IDNDR secretariate, we are now linked to all other NDERS countries . NCNDR of the I.R.Iran would like to announce readiness for cooperation with NCNDR of other countries specially those of the neighbouring countries.
- 2: International Institute of Earthquake Engineering & Seis as the regional center is ready to present its services to all countries in the region.
- 3: The I.R. of Iran announces its readiness to act as the regional coordinating center for disasters from emergency relief to reconstruction.
- 4: The R. of Iran has made tremendous efforts towards the formation of Caspian Sea Cooperation Council, which one of its main objective is to formulate and implement joint projects with Caspian Sea level rise and its consequences.
- 5: The I.R. of Iran welcome any joint effort in areas of disaster prevention, disaster prevention and reconstruction and in the continuum from relief to reconstruction in the regional basis with E.C.O countries and specially CIS.
- 6: A National Preparedness Plan and the comprehensive flood study are on the process of finalization between the Central Headquarter for Natural Disasters and UNDP.