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## The Role of Non-Governmental Organizations in Disaster Management: A Case study of Bam Earthquake, Iran

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### ARTICLE INFO ABSTRACT

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# **Introduction**: On December 26, 2003, a devastating earthquake jolted historic city of Bam in Iran. About 26000 people were killed and more than 30000 were injured. The historic monuments including the 2500 year old Arg-e Bam were destroyed severely. Since the scale of the disaster and the number of human casualties was high, management of the crisis became more complicated. Thus, people who were affiliated with different Non-Governmental Organizations

(NGOs) helped the government to rescue the affected people.

**Methods:** In the present case study, by interviewing experts and NGOs, their contribution and activities in Bam earthquake were investigated.

**Results:** A few hours after the earthquake, the local and international NGOs started their rescue activities spontaneously and continued their help even during the reconstruction period. Their activities included relief and rescue, food support, sanitation, treatments, emergency settlement, as well as providing physiological treatment and training. It was shown that the affected people were satisfied with NGOs' activities while governmental organizations could not coordinate well with them.

**Conclusion:** Well organized civilian and religious groups can be helpful for governmental organizations in assisting people affected by the earthquake. Therefore, different techniques were proposed to improve the process of preparedness and response during disasters and to have a better communication and coordination between governmental organizations (that are in charge of the crisis situations) and NGOs.

**Keywords**: Disasters, Earthquakes, Non-Governmental Organizations (NGOs), Bam, Iran

#### Introduction

Iran is a disaster-prone country, which experiences many disasters such as earthquakes every year. Historical data show the occurrence of a major earthquake every 2–3 years in Iran. In the 20th century alone, 20 major earthquakes claimed more than 140,000 lives, destroyed several villages and

cities and caused extensive economic damages to Iran (1). On the morning of December 26th 2003 at 05:28 (local time), a major earthquake measuring 6.5 on the Richter scale struck the city of Bam, Kerman Province, and south eastern of Iran. According to later estimates regarding the worst earthquake hitting the country during

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the last decade, more than 25000 people were killed and approximately 30000 were injured (2). Although the impact of the earthquake was limited to a relatively small area of about 16 Km in radius, in Bam city more than 85 percent of the buildings were completely destroyed. Its impact surrounding rural areas was also severe. More than 39361 residential and commercial units in Bam and 34,000 houses in 250 villages were destroyed and 75,000 homeless by the major earthquake (3). The caused the electricity, earthquake supply and most public health and education services to be completely disrupted. The 2500 year- old historic city of Bam, an internationally renowned heritage site in the center of Bam. was almost completely destroyed (4). The Ministry of Education reported that all 131 schools in Bam and the surrounding villages, with a combined capacity of 32843 students, were either destroyed or rendered unusable. From early hours after the earthquake, people from other cities and provinces helped people of Bam. Since the scale of the disaster and the number of human casualties and damages to infrastructures were high, management

the crisis became more complicated (5). Thus, people who were affiliated to local and international NGOs helped the government to rescue affected people.

### NGOs and Disaster Management Disaster Management definition

A disaster is a sudden unplanned event that causes great damage or serious loss to an organization (6). There are two main origins of hazards. namely natural and technological disasters. Natural disasters include hydrometeorological, geophysical biological and disasters. The technological disasters comprise transport and miscellaneous industrial, accidents (7).

Disaster management involves plans, structures, and arrangements established to engage the normal endeavors of governments, voluntary and private agencies in a comprehensive and coordinated way to respond to the whole spectrum of emergency management needs. Disaster cycle has components that might interact with each other and even covered partially by another Each component (8).component comprehensive disaster management cycle is shown in Figure 1.

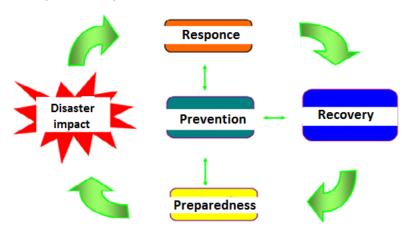


Figure1: Disaster management cycle (9)

### **NGOs definition**

the World Bank defined NGOs as private organizations that pursue activities to relieve suffering, promote the interests of the poor,

protect the environment, provide basic social services, or undertake community development (10). NGO activities can be local, national or international. NGOs have contributed to the

development of communities around the world and are important partners of many governments – while remaining independent from governments (11).

NGOs are usually an element of voluntary participation in the organization and also independent, in particular of government and other public authorities and of political parties or commercial organizations (12).

NGOs are not self-serving in aims and related values. Their aim is to act in large public arena and dealing with concerns and

related wellbeing issues to people's and specific groups of people or society as a whole. pursuing They are not the commercial or professional interests of their members. (13).Their activities are based on the process disaster management. of According to phases of disaster management, they can be active in processes; however, their activities are often in response and recovery phases. The NGOs' activities in 4 phases of disaster management are mentioned in Figure 2.

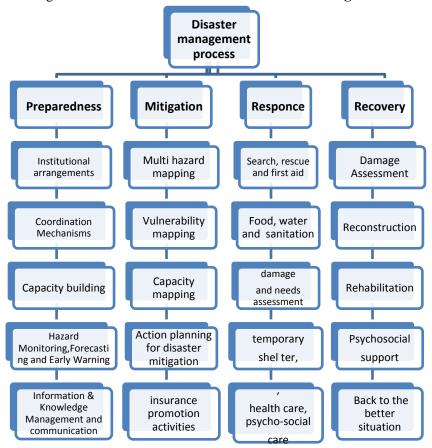


Figure 2: The NGOs' activities in 4 phases of disaster management (The authors)

### The NGOs' activities after the Bam earthquake

Following the devastating earthquake in the south-eastern city of Bam on December 26<sup>th</sup> 2003, at the request of Iranian

government, a lot of local and international NGOs took part in Bam and started their activities for helping the victims of this catastrophic earthquake. **Figure 3** indicates activities of NGOs in Bam.

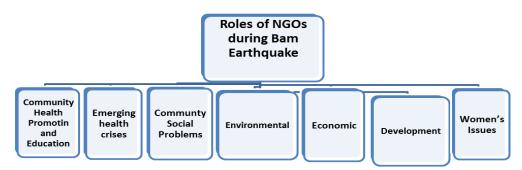


Figure 3: The activities of NGOs in Bam (The authors)

### **Activities of Local NGOs in Bam:**

Local NGOs from Kerman province and other cities of Iran gathered in Bam, some hours after the devastating earthquake. Their activities were useful but their coordination with international NGOs was weak; therefore, they could not improve their plans there. A

Few days after the earthquake, the relationship between international and local NGOs was established and international NGOs could apply their proceedings. **Table 1** reveals the name and activities of some Iranian NGOs. (5)

Table 1: The name and activities of some Iranian NGOs

Name	Туре	City
Hamyaran Iran NGO Resource Center	<ul> <li>Create a community-based model, emphasizing sustainable development</li> <li>Protection of the environment, community participation</li> <li>Poverty alleviation</li> <li>Vulnerable groups</li> <li>Equality of citizen's rights especially of women and young people</li> </ul>	Tehran
Society for the Protection and Assistance of Socially Disadvantaged Individuals (SPASDI)	<ul> <li>Awareness raising and public outreach</li> <li>Community support, engagement &amp; empowerment</li> <li>Network development and partnerships</li> </ul>	Bam
Earthquake Hazards Reduction Society of Iran(EHRSI)	<ul><li>Emergency Planning,</li><li>Building Programs</li></ul>	Tehran
SINA Association	Protection and Care facilities of children	The Iranian residents IN Vien
Association for Protecting Child Laborers	Educational assistance for refugees or Iranian street children	Tehran
Mehrazan Javan	<ul><li>Architecture</li><li>Building safe houses</li></ul>	Bam
YARA	<ul> <li>planning to cope with natural disasters</li> <li>training through workshops</li> <li>and seminars</li> <li>organizing a rescue team and performing rescue operations</li> </ul>	Tehran
Mashiz	Manages orphanages	Bam
Nobavaran	• facilitate cultural events such as education, sports, and care for children	Bam

### **International NGOs' Activities in Bam**

International NGOs played an important role during the emergency period because they provided enormous, effective, and relief operations with their expertness and

experience. However, most had left Bam by mid April after 3 months of operations. (Okano and Atsum, 2004). **Table 2** presents the name and activities of some International NGOs (5).

Table 2: The name and activities of some International NGOs

Name	Activities	Country
	Emergency relief	USA,
Caritas	• peace buildin	Switzerland,
	<ul> <li>respect for human rights, development of social justice</li> </ul>	Italy
Cordaid	<ul> <li>Works for poor people</li> </ul>	Netherlands
Operation Mercy	Reelief and development programs	Sweden
People in Need	<ul> <li>Rebuilding of health and education facilities</li> </ul>	Czech
ASB	<ul> <li>social and medical services</li> </ul>	Germany
Medair	<ul> <li>Respond to suffering victims in war and disaster situation</li> </ul>	Switzerland
TDH	Giving direct aid to children	Switzerland
Malteser	emergency relief	Malta
	<ul> <li>rehabilitation measures</li> </ul>	Malta
IBC Turkey	Training of crisis management period	Tuelcov
	Psychosocial therapy for children	Turkey
Help Germany	Emergency assistance	Cormony
	<ul> <li>rehabilitation and development projects</li> </ul>	Germany
AID24	Medical activities	Ципанти
AID24	Rebuilding of house units	Hungary
ADF Turkey	<ul> <li>Disaster relief services</li> </ul>	Turkov
	Refugee assistance	Turkey
World Vision	Relief and development organization working for the wellbeing of all people, especially children	Germany
STL	Emergency operations	Turkey
	Trainings and other capacity building programs	rancy
OXFAM	<ul> <li>Active in decreasing poverty and injustice</li> </ul>	
01111111	<ul> <li>Campaigning to responding to emergencies</li> </ul>	
Mercy Corp-USA	• Alleviate suffering, poverty and oppression by helping people build secure, productive and just communities	USA
	Urgent disaster assistance	
NICCO	Self-reliance support	Japan
	Rural environment protection	<u>F</u>
	Human resource development.	
Merlin	Provides medical relief in the aftermath of conflict, natural disaster or epidemic disease	UK
Relief International	Build the capacity of communities through the use of innovative	Bangladesh
Action Hambre	educational and ICT programs  End the cause of hunger in the world	Spain
Action Hamble	The structural reduction of poverty and the realization of internationally	Spain
ICCO	recognized human rights	Netherlands
	Social welfare	
Diakonie	<ul> <li>Running and taking care of hospitals</li> </ul>	Garmany
Diakonie	• Providing services for elderly, disabled, orphans and other	Germany
	vulnerable groups	
European Perspective	<ul> <li>Promote sustainable development</li> </ul>	
	Provide humanitarian assistance	Greece
	• Contribute towards the establishment of democratic institutions in	

Name	Activities	Country
	the target countries	
	Community development	
ADRA	Food distribution	Germany
	<ul> <li>Institutional development</li> </ul>	
	<ul> <li>Ongoing disaster relief</li> </ul>	
IRAC	• Advocates for lifesaving assistance and protection for displaced	UK
	people and promotes solutions to displacement crises	
Humedica	• Aid and assistance to the hungry, those affected by disasters and	
	others in need	
Doctors without	• Provide urgent medical care in countries to victims of war and	USA
Boundaries	disaster	USA
Save the Children	• Building the care and protection of children into broader social	
	welfare	India
	<ul> <li>poverty reduction and other national development strategies</li> </ul>	

For instance, Caritas as a famous NGO performed the emergency and post emergency

operations in Bam. In **Figure 4**, its operation is detailed.

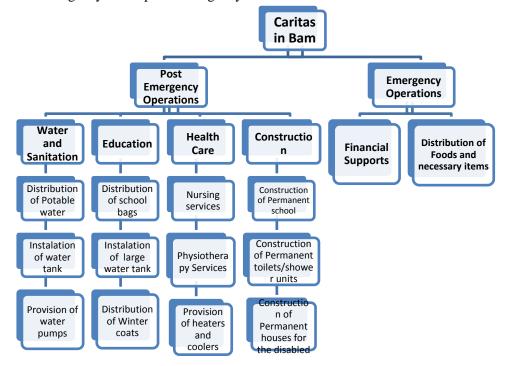


Figure 4: The Caritas Operations in Bam (The authors)

### The challenges of NGOs' activities in Iran during disasters:

- People' lack of knowledge about NGOs and their roles during disasters.
- The government is uncooperative and there are some administrative problems on their activities.
- The society is not self-confident enough for cooperating in NGOs activities.
- Some NGOs disregard the role of victims during disasters.
- The amount of financial aids and the way of spending them is not determined.
- Inaccessibility to enough information for implementing the process of disaster management.
- The management weakness in organizing the NGOs.

- Lack of suitable cooperation between all NGOs in Iran.
- The NGOs do not have long-term plans in responding disasters.
- Lack of progressive laws about NGOs in Iran.

### Solutions and suggestions for improving the NGOs activities during the disasters:

- Broadcasting culture of public contribution and motivating the youth and experts to establish NGOs.
- Public education for planning activities of NGOs during disasters through holding workshops and offering training courses in universities.
- Enactment of comprehensive laws for empowering the NGOs.
- Increasing the transparencies of governmental organizations and NGOs to determine their functions, properties and the amount of effectiveness.
- Decreasing the government tenure and increasing their supervision on NGOs' operations.

### Conclusion

According to a wide extension of disaster occurred in the country as well as the vulnerability of cities against high earthquake, developing the NGOs' activities in all levels, including technical, social, cultural, economical aspects, is an appropriate reaction strategy to reduce and/or even omit the existing risks. On the other hand, Iranian NGOs' operations focus on response

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phases disaster management; recovery in whereas, improving the level of the capabilities can be useful in pre-emergency phase, such as preparedness processes. Although government plays a significant role in the process of improvement, it is so important to give enough opportunity to NGOs in order to be more active and productive during disaster management. The results of the NGOs' activities during Bam earthquake demonstrate that a successful coordination between victims of the earthquake and NGOs is taken place. there However. were some uncoordinated relations among **NGOs** and governmental organizations that could influence their functions. Therefore, solving the problems can decreasing effective in negative consequences of oncoming disaster.

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### **Conflict of interest**

The authors declare that they have no competing interests.

### **Authors' contribution**

All of the authors approved the content of the manuscript and agreed on all aspects of the work.

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