

ASEAN REGIONAL FORUM

Matrix of Cooperation

in

Disaster Management

among

ARF Participants

July 1999

Version 2

compiled by



ASIAN DISASTER PREPAREDNESS CENTER
Bangkok, Thailand

FOREWORD

Asia is the most disaster-prone region in the world with more than fifty percent of the world's population in about 26% of the land area of the world, the region receives more than its fair share of the world's disasters. Even as the efforts to reduce the impact of these disasters have intensified over the last decade, we have seen a considerable increase in the number of small, medium and large-scale disasters. Sometimes, coping with these disasters has exceeded the capacities of the stricken countries and they have been obliged to seek international assistance from both within and outside the region. In addition, the **transboundary** effects of many of the emerging hazards have made it imperative that countries cooperate with each other in sharing **information**, resources and know how to deal with disasters.

The participants of the ASEAN Regional Forum have committed themselves to finding ways and means of cooperation. While there has been lot of cooperation for a long time, there is little consolidated information about it. The present volume, compiled at the request of ARF participants, is an effort to present a complete picture of past and ongoing cooperation among ARF participants. We hope that it will be helpful to the ARF participants in charting directions for the future.

Since its establishment in 1986, ADPC has dedicated itself to disaster reduction for safer communities and sustainable development by means of training, information dissemination, technical assistance and management of regional programs on disaster reduction. In presenting this volume to its users, I reaffirm **ADPC's** commitment to help in whatever way it can to reduce the impact of disasters.

Suvit Yodmani
Executive Director
ADPC

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1. MATRIX OF COOPERATION IN DISASTER MANAGEMENT AMONG ARF PARTICIPANTS

1.1 Introduction

At the Meeting of the ARF Expert Group on Disaster Relief in Bangkok on 29 January 1999, Thailand proposed that a matrix be drawn up to take stock of existing cooperation programmes at various levels by regional and international organizations.

In March 1999, ADPC circulated a survey questionnaire to all ARF Participants followed up by telephone contacts. The response was encouraging where 9 countries sent the required details of cooperation. Based on these responses from participating countries and organisations, ADPC presented Version 1 of the Matrix at the 3rd Inter-sessional Meeting on Disaster Relief of the ARF held at Moscow from 11-14th April 1999. The Matrix listed cooperation among ARF participants, both bilateral and multilateral, as well as with other regional and international organisations. The Matrix covered more than 80 recorded cases of past *ad hoc* cooperation and existing formal agreements in disaster management among ARF participants.

The meeting viewed positively the range of cooperation listed in the matrix and encouraged those ARF participants that had not been able to submit their completed questionnaire, to submit it for the next meeting. ADPC was mandated to prepare an updated version of the Matrix including responses from all countries in time for distribution at the ARF Ministerial Meeting in Singapore on 26 July 1999. Similar process of requesting ARF participants to submit their questionnaire was followed by ADPC and most countries submitted the completed questionnaire.

1.2 Presentation of the Cooperation

The data assembled is presented in the form of matrices in this report. There are 3 categories of matrices presented (refer 3.1 to 3.3).

1. *Past bilateral cooperation between ARF Participants:*

- *summary of cooperation*
- *extent of cooperation for each disaster type (as the result of formal prior agreement or on an ad hoc basis);*

2. *Past multilateral cooperation between ARF Participants and international organisations*

- *summary of cooperation*

3. *Agreements for future cooperation.*

Though there have been various established multilateral collaboration agreements in the past, for simplicity they are not included in the matrices, but are summarised separately. A brief explanation of each collaboration (establishment, objectives, participating countries and the areas of collaboration) is also presented in the later half of the report.

ACKNOWLEDGMENTS

*The ADPC would like to express its thanks to all the Participants who responded so readily to the questionnaire, to USAID/OFDA, which sponsored the survey, to ADRC and IDNDR for sharing information and Prof. Yap Kioe **Sheng** and Aman **Mehta** of Urban Management Centre (AIT) who acted as ADPC consultants for the activity.*

*The matrices presented here are in the second stage (Version 2). Hence, the information **compiled** in the matrices is neither exhaustive nor completely correct but it is the best that could be done with what was provided and in the time available. In the event that participants at the ARF Ministerial Meeting in Singapore find the matrices useful, the ADPC will be pleased to up-date them in the future.*

2. EXPLANATION OF THE MATRIX




In the first category of matrix (3.1), summary of cooperation for *any* disaster **type(s)** between the ARF countries is presented, followed by separate matrices for each disaster event. The disasters included in the matrix include **floods, tsunami, drought, earthquake, cyclone, forest fire, typhoon, and accidents**. The selection of disasters is based upon the response from participating countries.

The second category of matrix (3.2) presents the type of cooperation and kind of assistance received by the ARF participants from international organisations for **any** disaster event.




The third category of matrix (3.3) presents the agreements for future cooperation among the ARF participating countries and between the ARF countries and international organisations. The matrix also presents the type of cooperation and kind of assistance between the partner organisations or countries.

All the matrices presented follow a standard format, where the countries or organisations providing assistance are listed horizontally and the countries receiving assistance are listed vertically. Each corresponding cell presents the cooperation or the extent of cooperation between the ARF countries or organisations with the use of standard graphic symbols that are explained at the bottom of each page.

An example :

| Country receiving assistance | Country Providing Assistance | | | | |
|------------------------------|------------------------------|---|---|---|---|
| | A | B | C | D | E |
| A | | | | | |
| B | | | | | |
| C | | | | | |
| D | |    | | | |
| E | | | | | |

Where

-  Ad hoc cooperation.
-  Manpower assistance
-  Expertise

*Explanation: Country B provided ad hoc assistance to Country D in **the** form of manpower and expertise.*

3.1. SUMMARY : Past Bilateral Cooperation between ARF participants

| Countries Receiving Assistance | Countries Providing Assistance | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|--------------------------------|-------|-------|------|-------|----|-------|--------|-------|-----|--------|-------|-------|----|-------|-----|-----|------|-------|--------|-----|-------|----|
| | Aus. | Brun. | Camb. | Can. | China | EU | India | Indon. | Japan | Lao | Malay. | Mong. | Myan. | NZ | Phil. | PNG | ROK | Rus. | Sing. | Thail. | USA | Viet. | |
| Aus. | | | | | | | | | | | | | | | | | | | | | | | |
| Brun. | | | | | | | | | | | | | | | | | | | | | | | |
| Camb. | AH | | | | AH | AH | | | | | | | AH | AH | | | AH | | AH | AH | AH | | |
| China | | | | | | | | | AH | | | | | | | | AH | | AH | AH | | AH | |
| Can. | | | | | | | | | | | | | | | | | | | | | | | |
| EU | | | | | | | | | | | | | | | | | | | | | | | |
| India | | | | | | | | | | | | | | | | | AH | | | | | AH | |
| Indon. | AH | | | | | AH | | | AH | | AH | | | | | | AH | AH | AH | AH | AH | AH | |
| Japan | | | | | | | | | | | | | | | | | | | | | | AH | |
| Lao | AH | | | AH | | AH | | | AH | | | | AH | | | | | | AH | | | AH | AH |
| Malay. | | | | | | | | | AH | F | | | | | | | | | AH | | | AH | AH |
| Mong. | | | | AH | AH | AH | | | AH | | | AH | F | | | | | AH | | | | AH | AH |
| Myan. | | | | | AH | | AH | AH | AH | | | | | | | | AH | | | | | AH | AH |
| NZ | | | | | | | | | | | | | | | | | | | | | | | |
| Phil. | AH | | | | | AH | | | AH | | | | | | | | | | | AH | | AH | AH |
| PNG | AH | | | | | | | | AH | | | | | | AH | | | | | | | AH | AH |
| ROK | | | | | | | | | AH | | | | | | | | | | | | | | |
| Rus. | | | | | | | | | AH | | | | | | | | AH | | | | | | |
| Sing. | | | | | | | | | AH | | | | | | | | | | | | | | |
| Thail. | | | | | | | | | | | | | | | | | | | | | | | |
| USA | | | | | | | | | | | | | | | | | | | | | | | |
| Viet. | AH | | | | | AH | | | AH | | | | | | | | | AH | AH | AH | AH | AH | |

Cooperation Framework

- 1. Ad hoc AH
- 2. Under formal agreement F

3.1 a. EARTHQUAKE: Past Bilateral Cooperation between ARF participants

| Countries Receiving Assistance | Countries Providing Assistance | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|--------------------------------|-------|-------|------|-------|----|-------|--------|-------|-----|--------|-------|-------|----|-------|-----|-----|------|-------|--------|-----|-------|----|----|
| | Aus. | Brun. | Camb. | Can. | China | EU | India | Indon. | Japan | Lao | Malay. | Mong. | Myan. | NZ | Phil. | PNG | ROK | Rus. | Sing. | Thail. | USA | Viet. | | |
| Aus. | | | | | | | | | | | | | | | | | | | | | | | | |
| Brun. | | | | | | | | | | | | | | | | | | | | | | | | |
| Camb. | | | | | | | | | | | | | | | | | | | | | | | | |
| China | | | | | | | | | Ⓜ | 👤 | | | | | | | | | | | | | | |
| Can. | | | | | | | | | | | | | | | | | | | | | | | | |
| EU | | | | | | | | | | | | | | | | | | | | | | | | |
| India | | | | | | | | | | | | | | | | | Ⓜ | \$ | | | | Ⓜ | 👤 | \$ |
| Indon. | Ⓜ | ● | | | | | | | Ⓜ | 👤 | + | \$ | | | | | | | | Ⓜ | 👤 | + | \$ | |
| Japan | | | | | | | | | | | | | | | | | Ⓜ | ● | | | | Ⓜ | ● | |
| Lao | | | | | | | | | | | | | | | | | | | | | | | | |
| Malay. | | | | | | | | | | | | | | | | | | | | | | | | |
| Mong. | | | | | | | | | | | | | | | | | | | | | | | | |
| Myan. | | | | | | | | | | | | | | | | | | | | | | | | |
| NZ | | | | | | | | | | | | | | | | | | | | | | | | |
| Phil. | Ⓜ | ● | | | | | | | Ⓜ | 👤 | + | \$ | | | | | | | | Ⓜ | 👤 | + | | |
| PNG | Ⓜ | ● | 👤 | | | | | | | | | | | | | | | | | | | | | |
| ROK | | | | | | | | | | | | | | | | | | | | | | | | |
| Rus. | | | | | | | | | Ⓜ | 👤 | + | | | | | | | | | | | Ⓜ | ● | |
| Sing. | | | | | | | | | | | | | | | | | | | | | | | | |
| Thail. | | | | | | | | | | | | | | | | | | | | | | | | |
| USA | | | | | | | | | | | | | | | | | | | | | | | | |
| Viet. | | | | | | | | | | | | | | | | | | | | | | | | |

| Cooperation Framework | |
|---------------------------|---|
| 1. Adhoc | Ⓜ |
| 2. Under formal agreement | F |

| Kind of Assistance | | | |
|----------------------|---|-------------------------|----|
| 1. Search and Rescue | 🔍 | 4. Health | + |
| 2. Manpower | 👤 | 5. MCDA | — |
| 3. Expertise | X | 6. Equipment | — |
| | | 7. Financial | \$ |
| | | 8. Joint exercise | A |
| | | 9. Information Exchange | ↔ |

3.1 b, DROUGHT : Past Bilateral Cooperation between ARF participants

| Countries Receiving Assistance | Countries Providing Assistance | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|--------------------------------|-------|-------|------|-------|----|-------|--------|-------|-----|--------|-------|-------|----|-------|-----|-----|------|-------|--------|-------------|----|
| | Aus. | Brun. | Camb. | Can. | China | EU | India | Indon. | Japan | Lao | Malay. | Mong. | Myan. | NZ | Phil. | PNG | ROK | Rus. | Sing. | Thail. | USA Viet. | |
| Aus. | | | | | | | | | | | | | | | | | | | | | | |
| Brun. | | | | | | | | | | | | | | | | | | | | | | |
| Camb. | | | | | | X | + | | | | | | | | | | | | | | | |
| China | | | | | | | | | | | | | | | | | | | | | | |
| Can. | | | | | | | | | | | | | | | | | | | | | | |
| EU | | | | | | | | | | | | | | | | | | | | | | |
| India | | | | | | | | | | | | | | | | | | | | | | |
| Indon. | AH | | | | | AH | + | | AH | | | | | | | | | | | | | |
| Japan | | | | | | | | | | | | | | | | | | | | | | |
| Lao | AH | | | AH | | AH | + | | AH | | | | | | | | | | | | | AH |
| Malay. | | | | | | | | | | | | | | | | | | | | | | |
| Mong. | | | | | | | | | | | | | | | | | | | | | | |
| Myan. | | | | | | | | | | | | | | | | | | | | | | |
| NZ | | | | | | | | | | | | | | | | | | | | | | |
| Phil. | | | | | | AH | + | | | | | | | | | | | | | | | |
| PNG | AH | | | | | | | | | | | | | | AH | | | | | | | |
| ROK | | | | | | | | | | | | | | | | | | | | | | |
| Russ. | | | | | | | | | | | | | | | | | | | | | | |
| Sing. | | | | | | | | | | | | | | | | | | | | | | |
| Thail. | | | | | | | | | | | | | | | | | | | | | | |
| USA | | | | | | | | | | | | | | | | | | | | | | |
| Viet. | | | | | | | | | | | | | | | | | | | | | | |

| Cooperation Framework | |
|---------------------------|----|
| 1. Ad hoc | AH |
| 2. Under formal agreement | F |

| Kind of Assistance | | |
|----------------------|---|-------------------------|
| 1. Search and Rescue | | 4. Health |
| 2. Manpower | | 5. MCDA |
| 3. Expertise | X | 6. Equipment |
| | | 7. Financial |
| | | 8. Joint exercise |
| | | 9. Information Exchange |

3.1c. TSUNAMI : Past Bilateral Cooperation between ARF participants

| Countries Receiving Assistance | Countries Providing Assistance | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|--------------------------------|-------|-------|------|-------|----|-------|---------|-------|------|--------|-------|-------|----|-------|-----|-----|------|--------|--------|--------|-------|--|
| | Aus. | Brun. | Camb. | Can. | China | EU | India | Indon. | Japan | Lao | Malay. | Mong. | Myan. | NZ | Phil. | PNG | ROK | Rus. | Sing. | Thail. | USA | Viet. | |
| Aus. | | | | | | | | | | | | | | | | | | | | | | | |
| Bran. | | | | | | | | | | | | | | | | | | | | | | | |
| Camb. | | | | | | | | | | | | | | | | | | | | | | | |
| China | | | | | | | | | | | | | | | | | | | | | | | |
| Can. | | | | | | | | | | | | | | | | | | | | | | | |
| EU | | | | | | | | | | | | | | | | | | | | | | | |
| India | | | | | | | | | | | | | | | | | | | | | | | |
| Indon. | AH X | | | | | | | AH X+\$ | | AH F | | | | | | | | | AH +\$ | | AH +\$ | | |
| Japan | | | | | | | | | | | | | | | | | | | | | | | |
| Lao | | | | | | | | | | | | | | | | | | | | | | | |
| Malay. | | | | | | | | | | | | | | | | | | | | | | | |
| Mong. | | | | | | | | | | | | | | | | | | | | | | | |
| Myan. | | | | | | | | | | | | | | | | | | | | | | | |
| NZ | | | | | | | | | | | | | | | | | | | | | | | |
| Phil. | | | | | | | | | | | | | | | | | | | | | | | |
| PNG | AH X | | | | | | | AH X+ | | | | | | | AH + | | | | | | | AH + | |
| ROK | | | | | | | | | | | | | | | | | | | | | | | |
| Russ. | | | | | | | | | | | | | | | | | | | | | | | |
| Sing. | | | | | | | | | | | | | | | | | | | | | | | |
| Thail. | | | | | | | | | | | | | | | | | | | | | | | |
| USA | | | | | | | | | | | | | | | | | | | | | | | |
| Viet. | | | | | | | | | | | | | | | | | | | | | | | |

| Cooperation Framework | |
|---------------------------|----|
| 1. Ad hoc | AH |
| 2. Under formal agreement | F |

| Kind of Assistance | | | | | |
|----------------------|---|--------------|---|-------------------------|----|
| 1. Search and Rescue | 🔍 | 4. Health | + | 7. Financial | \$ |
| 2. Manpower | | 5. MCDA | ■ | 8. Joint exercise | A |
| 3. Expertise | ■ | 6. Equipment | ● | 9. Information Exchange | ↔ |

3.1 d. FLOODS : Past Bilateral Cooperation between ARF participants

| Countries Receiving Assistance | Countries Providing Assistance | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|--------------------------------|-------|-------|--------|-------|----------|---------|--------|-----------|-----|--------|-------|--------|-------|-------|-----|-------|-------|-------|--------|---------|---------|--|
| | Aus. | Brun. | Camb. | Can. | China | EU | India | Indon. | Japan | Lao | Malay. | Mong. | Myan. | NZ | Phil. | PNG | ROK | Rus. | Sing. | Thail. | USA | Viet. | |
| Aus. | | | | | | | | | | | | | | | | | | | | | | | |
| Brun. | | | | | | | | | | | | | | | | | | | | | | | |
| Camb. | AH ● X | | | \$ | | AH ● X + | | | \$ + | | | | AH \$ | AH \$ | AH + | | AH \$ | | AH + | AH \$ | AH \$ | | |
| China | | | | | | | | | AH ● \$ | | | | | | | | AH \$ | | | | | AH ● | |
| Can. | | | | | | | | | | | | | | | | | | | | | | | |
| EU | | | | | | | | | | | | | | | | | | | | | | | |
| India | | | | | | | | | | | | | | | | | | | | | | | |
| Indon. | | | | | | | | | | | | | | | | | | | | | | | |
| Japan | | | | | | | | | | | | | | | | | | | | | | | |
| Lao | AH ● X | | | AH ● X | | AH ● + | | | AH ● X \$ | | | | AH ● X | | | | | | | | AH ● \$ | AH ● X | |
| Malay. | | | | | | | | | | | | | | | | | | | | | | | |
| Mong. | | | | | | | | | | | | | | | | | | | AH ● | | | | |
| Myan. | | | | AH | | | AH ● \$ | AH \$ | AH ● \$ | | | | | | | | | AH \$ | | | | AH ■ \$ | |
| NZ | | | | | | | | | | | | | | | | | | | | | | | |
| Phil. | | | | | | | | | | | | | | | | | | | | | | | |
| PNG | | | | | | | | | | | | | | | | | | | | | | | |
| ROK | | | | | | | | | | | | | | | | | | | | | | | |
| Rus. | | | | | | | | | | | | | | | | | | | | | | | |
| Sing. | | | | | | | | | | | | | | | | | | | | | | | |
| Thail. | | | | | | | | | | | | | | | | | | | | | | | |
| USA | | | | | | | | | | | | | | | | | | | | | | | |
| Viet. | | | | | | | | | | | | | | | | | | | | | | AH ● | |

| Cooperation Framework | |
|---------------------------|----|
| 1. Ad hoc | AH |
| 2. Under formal agreement | F |

| Kind of Assistance | | | |
|----------------------|----|-------------------------|----|
| 1. Search and Rescue | 🔍 | 4. Health | + |
| 2. Manpower | | 5. MCDA | ■ |
| 3. Expertise | →X | 6. Equipment | ● |
| | | 7. Financial | \$ |
| | | 8. Joint exercise | A |
| | | 9. Information Exchange | ↔ |

3.1e. FOREST FIRE : Past Bilateral Cooperation between ARF participants

| Countries Receiving Assistance | Countries Providing Assistance | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|--------------------------------|-------|-------|------|-------|---------|--------|--------|-------------|-----|-----------|-------|-------|----|-------|-----|------|------|-----------|-----------|-----------|-------|--|--|
| | Aus. | Brun. | Camb. | Can. | China | EU | India | Indon. | Japan | Lao | Malay. | Mong. | Myan. | NZ | Phil. | PNG | ROK | Rus. | Sing. | Thail. | USA | Viet. | | |
| Aus. | | | | | | | | | | | | | | | | | | | | | | | | |
| Brun. | | | | | | | | | | | | | | | | | | | | | | | | |
| Camb. | | | | | | | | | | | | | | | | | | | | | | | | |
| China | | | | | | | | | | | | | | | | | | | | | | | | |
| Can. | | | | | | | | | | | | | | | | | | | | | | | | |
| EU | | | | | | | | | | | | | | | | | | | | | | | | |
| India | | | | | | | | | | | | | | | | | | | | | | | | |
| Indon. | AH F | | | | | | AH ● + | | AH ● \$ + X | | AH ● \$ X | | | | | | 3 \$ | | AH ● \$ X | AH ● \$ X | AH ● \$ X | | | |
| Japan | | | | | | | | | | | | | | | | | | | | | | | | |
| Lao | | | | | | | | | | | | | | | | | | | | | | | | |
| Malay. | | | | | | | | | AH ● \$ X | | | | | | | | | | | | | | | |
| Mong. | | | | 3 ● | | AH ● \$ | AH ● | | AH ● \$ | | | | | | | | | | | | | | | |
| Myan. | | | | | | | | | AH ● \$ | | | | | | | | | | | | | | | |
| NZ | | | | | | | | | | | | | | | | | | | | | | | | |
| Phil. | | | | | | | | | | | | | | | | | | | | | | | | |
| PNG | | | | | | | | | | | | | | | | | | | | | | | | |
| ROK | | | | | | | | | | | | | | | | | | | | | | | | |
| Rus. | | | | | | | | | | | | | | | | | | | | | | | | |
| Sing. | | | | | | | | | | | | | | | | | | | | | | | | |
| Thail. | | | | | | | | | | | | | | | | | | | | | | | | |
| USA | | | | | | | | | | | | | | | | | | | | | | | | |
| Viet. | | | | | | | | | | | | | | | | | | | | | | | | |

| Cooperation Framework | |
|---------------------------|----|
| 1. Ad hoc | AH |
| 2. Under formal agreement | F |

| Kind of Assistance | | | |
|----------------------|---|-------------------------|----|
| 1. Search and Rescue | | 4. Health | + |
| 2. Manpower | | 5. MCDA | |
| 3. Expertise | X | 6. Equipment | |
| | | 7. Financial | \$ |
| | | 8. Joint exercise | A |
| | | 9. Information Exchange | |

3.1f. CYCLONE/TYPHOON: Past Bilateral Cooperation between ARF participants



| Countries Receiving Assistance | Countries Providing Assistance | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|--------------------------------|-------|-------|------|-------|----|-------|--------|-------|-----|--------|-------|-------|----|-------|-----|-----|------|-------|--------|-----|-------|--|
| | Aus. | Brun. | Camb. | Can. | China | EU | India | Indon. | Japan | Lao | Malay. | Mong. | Myan. | NZ | Phil. | PNG | ROK | Rus. | Sing. | Thail. | USA | Viet. | |
| Aus. | | | | | | | | | | | | | | | | | | | | | | | |
| Brun. | | | | | | | | | | | | | | | | | | | | | | | |
| Camb. | | | | | | | | | | | | | | | | | | | | | | | |
| China | | | | | | | | | | | | | | | | | | | | | | | |
| Can. | | | | | | | | | | | | | | | | | | | | | | | |
| EU | | | | | | | | | | | | | | | | | | | | | | | |
| India | | | | | | | | | | | | | | | | | | | | | | | |
| Indon. | | | | | | | | | | | | | | | | | | | | | | | |
| Japan | | | | | | | | | | | | | | | | | | | | | | | |
| Lao | | | | | | | | | | | | | | | | | | | | | | | |
| Malay. | | | | | | | | | | | | | | | | | | | | | | | |
| Mong. | | | | | | | | | | | | | | | | | | | | | | | |
| Myan. | | | | | | | | | | | | | | | | | | | | | | | |
| NZ | | | | | | | | | | | | | | | | | | | | | | | |
| Phil. | | | | | | | | | | | | | | | | | | | | | | | |
| PNG | | | | | | | | | | | | | | | | | | | | | | | |
| ROK | | | | | | | | | | | | | | | | | | | | | | | |
| Russ. | | | | | | | | | | | | | | | | | | | | | | | |
| Sing. | | | | | | | | | | | | | | | | | | | | | | | |
| Thail. | | | | | | | | | | | | | | | | | | | | | | | |
| USA | | | | | | | | | | | | | | | | | | | | | | | |
| Viet. | | | | | | | | | | | | | | | | | | | | | | | |










| Cooperation Framework | |
|---------------------------|--|
| 1. Ad hoc | |
| 2. Under formal agreement | |

| Kind of Assistance | | | |
|----------------------|--|-------------------------|--|
| 1. Search and Rescue | | 4. Health | |
| 2. Manpower | | 5.MCDA | |
| 3. Expertise | | 6.Equipment | |
| | | 7. Financial | |
| | | 8. Joint exercise | |
| | | 9. Information Exchange | |

3.1g. ACCIDENTS : Past Bilateral Cooperation between ARF participants

| Countries Receiving Assistance | Countries Providing Assistance | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|--------------------------------|-------|-------|------|-------|----|-------|--------|-------|-----|--------|-------|-------|----|-------|-----|-----|------|-------|--------|-----|-------|
| | Aus. | Brun. | Camb. | Can. | China | EU | India | Indon. | Japan | Lao | Malay. | Mong. | Myan. | NZ | Phil. | PNG | ROK | Rus. | Sing. | Thail. | USA | Viet. |
| Aus. | | | | | | | | | | | | | | | | | | | | | | |
| Brun. | | | | | | | | | | | | | | | | | | | | | | |
| Camb. | | | | | | 3+ | | | | | | | | | | | | | | | | |
| China | | | | | | | | | | | | | | | | | | | | | | |
| Can. | | | | | | | | | | | | | | | | | | | | | | |
| EU | | | | | | | | | | | | | | | | | | | | | | |
| India | | | | | | | | | | | | | | | | | | | | | | |
| Indon. | | | | | | | | | | | | | | | | | | | | | | |
| Japan | | | | | | | | | | | | | | | | | | | | | | |
| Lao | | | | | | | | | | | | | | | | | | | | | | |
| Malay. | | | | | | | | | | | | | | | | | | | | | | |
| Mong. | | | | | | | | | | | | | | | | | | | | | | |
| Myan. | | | | | | | | | | | | | | | | | | | | | | |
| NZ | | | | | | | | | | | | | | | | | | | | | | |
| Phil. | | | | | | | | | | | | | | | | | | | | | | |
| PNG | | | | | | | | | | | | | | | | | | | | | | |
| ROK | | | | | | | | | | | | | | | | | | | | | | |
| Rus. | | | | | | | | | | | | | | | | | | | | | | |
| Sing. | | | | | | | | | | | | | | | | | | | | | | |
| Thail. | | | | | | | | | | | | | | | | | | | | | | |
| USA | | | | | | | | | | | | | | | | | | | | | | |
| Viet. | | | | | | | | | | | | | | | | | | | | | | |

| Cooperation Framework | |
|---------------------------|---|
| 1. Ad hoc |  |
| 2. Under formal agreement |  |

| Kind of Assistance | | | | | |
|----------------------|---|--------------|---|-------------------------|---|
| 1. Search and Rescue |  | 4. Health |  | 7. Financial |  |
| 2. Manpower |  | 5. MCDA |  | 8. Joint exercise |  |
| 3. Expertise |  | 6. Equipment |  | 9. Information Exchange |  |

3.2. SUMMARY : Past Multilateral Cooperation between ARF participants and International Organisations

| Countries Receiving Assistance | Organisations Providing Assistance | | | | | | | | | | | | |
|--------------------------------|------------------------------------|-----------|--------|-------|----------|----------|---------|---------|-----------------|-------|----------|---------|------------|
| | French Red Cross | Care Int. | Oxfam | CESVI | IFRC | UNDP | MSF/CRC | MSF/EED | Span. Red Cross | FAO | UNCHR | WHO | World Bank |
| Aus. | | | | | | | | | | | | | |
| Brun. | | | | | | | | | | | | | |
| Camb. | AH X+ | AH X+Q | AH X←→ | | AH X▲ | AH ●+X\$ | AH X▲ | | | F ● X | AH ●+X\$ | | |
| China | | | | | | AH ●+X\$ | | | | | | | |
| Can. | | | | | | | | | | | | | |
| EU | | | | | | | | | | | | | |
| India | | | | | | | | | | | | | F X |
| Indon. | | AH X● | | | | AH ●+X\$ | AH ● | | | | AH ●+X\$ | | |
| Japan | | | | | | | | | | | | | |
| Lao | | AH X | AH X | AH X | | | | | | | | | |
| Malay. | | | | | | | | | | | | | |
| Mong. | | | | | AH X←→\$ | | | | | | | | |
| Myan. | | | | | | AH ● \$ | | | | | | AH ● \$ | |
| NZ | | | | | | | | | | | | | |
| Phil. | | | | | | | | AH + | AH + ● | | | | |
| PNG | | | | | | | | | | | | | |
| ROK | | | | | | | | | | | | | |
| Russ. | | | | | | | | | | | | | |
| Sing. | | | | | | | | | | | | | |
| Thail. | | | | | | AH ● | | | | | | | |
| USA | | | | | | AH ● X\$ | | | | | | | |
| Viet. | | | | | F X | F X | | | | | | | |

| Cooperation Framework | |
|---------------------------|----|
| 1. Ad hoc | AH |
| 2. Under formal agreement | F |

| Kind of Assistance | | |
|----------------------|-------------|-------------------------|
| 2. Search and Rescue | Q | 4. Health |
| 3. Manpower | Person icon | 5. MCDA |
| Expertise | X | 6. Equipment |
| | | 7. Financial |
| | | 8. Joint exercise |
| | | 9. Information Exchange |

3.3. Agreements for Future Cooperation among ARF participants

| Partner Countries | Partner Countries or Organisations | | | | | | | | | | | | | | | | | | | | Organisations | | | |
|-------------------|------------------------------------|-------|-------|------|-------------|----|-------|------------|-------|-----|--------|-------|------------|----|-------|-----------|-----|-----------|-------|-----------|---------------|---------|------|---|
| | Aus. | Brun. | Camb. | Can. | China | EU | India | Indon. | Japan | Lao | Malay. | Mong. | Myan. | NZ | Phil. | PNG | ROK | Rus. | Sing. | Thail. | | USA | Viet | |
| Aus. | | | | | | | | | | | | | | | | | | | | | | | | |
| Brun. | | | | | | | | | | | | | | | | | | | | | | | | |
| Camb. | AH | | | AH | AH ● F X \$ | | | F Q \$ F ▲ | | | | AH | AH \$ AH + | | | AH ● \$ F | | AH + \$ F | | AH + \$ F | | AH \$ F | | UNDP → X F |
| China | | | | | | | | | | | | | | | | | | | | | | | | \$ UNDP ● F |
| Can. | | | | | | | | | | | | | | | | | | | | | | | | |
| EU | | | | | | | | | | | | | | | | | | | | | | | | |
| India | | | | | | | | | | | | | | | | | | | | | | | | UNDP → ADR ● F |
| Indon. | F ▲ X | | | | | | | | | | | | | | | | | | | | | | | |
| Japan | | | | | | | | | | | | | | | | | | | | | | | | WMO → UNDR ● F CESVI ● Care Int. ● F |
| Lao | | | | | | | | | | | | | | | | | | | | | | | | |
| Malay. | | F ▲ | | | | | | | | | | | | | | | | | | | | | | |
| Mong. | F → | | | | | | | | | | | | | | | | | | | | | | | |
| Myan. | | | | | | | | | | | | | | | | | | | | | | | | |
| NZ | F → | | | | | | | | | | | | | | | | | | | | | | | |
| Phil. | F ▲ | | | | | | | | | | | | | | | | | | | | | | | |
| PNG | | | | | | | | | | | | | | | | | | | | | | | | |
| ROK | | | | | | | | | | | | | | | | | | | | | | | | → ADR ● F |
| Rus. | | | | | | | | | | | | | | | | | | | | | | | | |
| Sing. | | | | | | | | | | | | | | | | | | | | | | | | |
| Thail. | | | | | | | | | | | | | | | | | | | | | | | | OCHA, Under Consideration |
| USA | F ▲ | | | | | | | | | | | | | | | | | | | | | | | |
| Viet. | | | | | | | | | | | | | | | | | | | | | | | | UNDP → X F |

| Cooperation Framework | |
|---------------------------|----|
| 1. Ad hoc | AH |
| 2. Under formal agreement | F |

| Kind of Assistance | | |
|-------------------------|----|--|
| 1. Search and Rescue | Q | |
| 2. Manpower | Z | |
| 3. Expertise | * | |
| 4. Health | + | |
| 5. MCDA | ■ | |
| 6. Equipment | ● | |
| 7. Financial | \$ | |
| 8. Joint exercise | A | |
| 9. Information Exchange | ↔ | |

4. MULTI-LATERAL COLLABORATIVE AGREEMENTS

4.1 **International Search and Rescue Group (INSARAG)**

Establishment: It was established on 11-13 December 1991 in Germany and its Secretariat is provided by the United Nations Office for the Coordination of Humanitarian Affairs (OCHA), Geneva.

Purpose : The objectives of the group are to develop effective international relationships aimed at saving life and rendering humanitarian assistance following natural disasters by making response more effective and improving efficiency in cooperation amongst international search and rescue teams working at the site of a disaster; promote activities to improve search and rescue preparedness in disaster prone countries, especially developing countries; develop internationally accepted procedures and systems for sustained cooperation between national Search and Rescue (SAR) teams operating on the international scene; providing guidance and technical support in the field of operational coordination; strengthen cooperation during the emergency relief phase on SAR - related matters amongst interested **organisations**; provide a model for transmitting assessment **information**, relief requests and operational information to facilitate quick decisions which promote timely and effective responses to international disasters.

Activities: INSARAG activities are carried out through regional groups (Africa, Europe, America and Asian-Pacific) and interregional working groups. It has working relations with NGOs, the International Federation of Red Cross and Red Crescent Societies and Governments represented on Steering group.

4.2 **Regional Haze Action Plan**

Establishment : In June 1995, ASEAN Environmental Ministers had agreed on ASEAN Cooperation Plan on **Transboundary** pollution. In the light of the latest haze experience, the ASEAN Environmental Ministers agreed on this Regional Haze Action Plan.

Purpose : It sets out co-operative measures needed amongst ASEAN member countries to address the problem of smoke haze in the region arising from land and forest fires. The primary objective of the plan are; to prevent land and forest fire through better management policies and enforcement; establish operational mechanism to monitor land and forest fire and strengthen regional land and forest fighting capability and other mitigation measures. The action plan incorporates preventive measures, regional monitoring mechanisms and fire fighting capability.

4.3 Mekong River Commission

Establishment : The commission was established on 5th April 1995, when the agreement on the cooperation for the sustainable Development of the Mekong River was signed by plenipotentiaries from Cambodia, Laos, Thailand and Vietnam. It replaces the former Mekong Committee.

Purpose : The committee cooperates and promotes the sustainable development, utilisation, conservation and management of the Mekong River basin water and related resources for the navigational and non-navigational purposes for the social and economical development and well being of all riparian states, consistent with the need to **protect**, preserve, enhance and manage the environmental and aquatic conditions and maintenance of the ecological balance exceptional to this river basin.

Grants are contributed from Australia, Belgium, Denmark, Finland, France, Germany, Japan, Korea Rep., Netherlands, New Zealand, Sweden, Switzerland, United Kingdom, Asian Development Bank (ADB), European Commission (EC), UNDP and UNEP.

Activities : The prime sectors include Strategic Studies, Hydrology Studies and Modelling, Remote Sensing and Mapping, Environment, Water Resources and Hydropower, Water Shed Management and Forestry, Fisheries, River Works and Transport, Resources Development and Programme Support.

International organisation having relation with the commission include International Bank for Reconstruction and Development (IBRD), FAO, ASEAN, South Asian Fisheries Development Centre (SEAFDEC) while NGOs having relations with the commission includes Asian Institute of Technology (AIT), International Union for Conservation of Nature Resources and Conservation Union (IUCN), Mekong Dialogue, Mekong Law Centre, WWF, International Care Foundation (ICF),

4.4 ESCAP's Urban Geology Programme

Purpose : In its Geology for Planning programme, ESCAP is working towards inducing decision makers to take geological factors into account for improving the quality of land-use planning and reduce the effects of natural hazards posed by earthquakes, volcanoes, ground subsidence and flooding.

Based on our present inventory of the disastrous effects of ignoring geology, the programme now aims to demonstrate that geological input is slowly being built into the planning process. Several member countries have initiated regular data interchange between authorities and geologists - each is invited to benefit from this opportunity.

4.5 WMO/ESCAP Typhoon Committee (TC)

Establishment : Also referred to as the Typhoon Committee (TC), It was formed in 1968, in **Bangkok**, as an inter-governmental body under the auspices of the then United Nations Economic Commission for Asia and the Far East (ECAFE), currently United Nations Economic and Social Commission for Asia and Pacific(ESCAP), and World Meteorological Organisation (WMO).

Purpose : Its aim is to establish efficient typhoon and flood warning systems through improved meteorological, hydrological and disaster prevention and preparedness; promote and co-ordinate efforts to minimise damages caused by typhoons.

Activities : Planning, implementation and review of programmes towards improvement of TC components; Meteorology, Hydrology, Disaster Prevention and Preparedness, Training and Research.

Members : Government of 12 countries and territories (Cambodia, China, Hong Kong, Japan, Korea, DPR, Korea Repub., Laos, Macau, Malaysia, Philippines, Vietnam).

It has good relations with International Civil Aviation Organisation (ICAO), United Nations Centre for Social Development and Humanitarian affairs (UNCSDHA) and and NGO relations with International Federation of Red Cross and Red Crescent Societies.

4.6 United Nations Disaster Assessment and Coordination (UNDAC)

Purpose : The UNDAC Team concept focuses on providing an effective tool for rapid assessment and on-site co-ordination missions following a natural disaster or a **sudden-onset** emergency, if international assistance is required. The UNDAC Team consists of OCHA Disaster Response Officers together with emergency managers made available by their respective Governments for UNDAC missions. All members of the UNDAC Team have been specially trained and equipped for their task and have a common methodology. If necessary, the UNDAC Team can be reinforced with experts covering specialised fields of assessment and/or coordination. The UNDAC Team has three main components based in Europe, Latin America and Pacific.

Team Members : At present, the UNDAC Team has 148 members from 29 countries, OCHA, United Nations Agencies, the International Federation of Red Cross and Red Crescent Societies (IFRC) and NGOs. It has been utilised in 57 response missions from 1993 to June 1999 in both natural disasters and other emergencies.

4.7 ASEAN Expert Group on disaster Management(AEGDM)

Establishment : The ASEAN Experts Group on Disaster Management is under the Committee on Social Development (COSD) of the Association of South East Asian Nations (ASEAN)

Purpose : The objectives of the AEGDM aim to enhance regional cooperation in all aspects of disaster management, including prevention, mitigation, preparation, response and recovery through mutual assistance activities in order to minimise the adverse consequences of disasters on the economic and social development in member countries. The groups' area of work includes both natural and man-made disasters.

Functions and Activities : The activities of the group focus on strengthening the regional cooperation in all aspects of disaster management by pursuing the following activities :

- *Enhancement* : Enhance the sharing of resources and information on disaster management.
- *Facilitation* : Facilitate coordination and distribution of medical supplies, services and relief assistance when needed;
- *Collaboration* : Intensify collaborative activities in disaster management with third countries and international agencies while striving for self reliance;
- *Promotion* : human resource development in disaster management in accordance with the needs of the member countries; the active involvement and participation of NGOS; effective integration of programmes and activities with other relevant ASEAN bodies; public education and awareness programmes; collaborative disaster research activities.

The groups meet every 2 years at venues to be rotated in alphabetical order among member countries.

Membership : There are 10 member countries within ARF, and they include Brunei Darussalam, Cambodia, Indonesia, Lao PDR, Malaysia, Myanmar, Philippines, Singapore, Thailand and Vietnam

4.8 ASEAN Regional Forum (ARF)

Establishment: The ASEAN Region Forum was established in July 1993 within the framework of the Association of South Asian Nations (ASEAN). It was formally established on 25th July 1994 in Bangkok.

Purpose : ARF aims to intensify ASEAN's external dialogue in political and security measures as a means of building cooperative ties with States of the Asian-Pacific region.

Functions and Activities : ARF endorses the purpose and principles of Treaty of amity and cooperation in Southeast Asia (TAC, 1976). It acts as a high level consultative forum, following a 3 stage approach to cooperation; promotion of **confidence-building**, development of preventive diplomacy; elaboration of approaches to conflict.

Membership : There are 10 member countries within ARF, and they include Brunei Darussalam, Cambodia, Indonesia, Lao PDR, Malaysia, Myanmar, Philippines, Singapore, Thailand and Vietnam

4.9 United Nations Disaster Assessment and Coordination (UNDAC)

Purpose : The UNDAC main concept focuses on an effective tool for rapid assessment and on-site **co-ordination** missions following a sudden-onset disaster or a sudden development in an on-going emergency situation, if international assistance is required. The UNDAC Team consists of OCHA Relief Coordination Officers together with emergency managers made available by their respective Governments for UNDAC missions. All members of the UNDAC Team have been specially trained and equipped for their task. If necessary, the UNDAC Team can be reinforced with experts covering specialised fields of assessment and/or coordination.

Team Members : At present, the UNDAC Team has 122 members (110 active and 12 non-active) from the following regions:

- Europe: 75 members (18 from OCHA; 65 active and 10 non-active).
- Latin America: 24 members (23 active and 1 non-active).
- South Pacific: 22 members (22 active and 0 non-active).

4.10 United Nations Development Programs : Capacity Building Projects

The UNDP projects on disaster management are currently taking place in a number of countries that are vulnerable to disasters and need to strengthen their institutional and technical capacity for disaster preparedness, mitigation, emergency response and post disaster rehabilitation.

The primary objective of these projects is to build capacity of the national focal points for disaster mitigation and establish and strengthen the national disaster mechanisms for disaster preparedness, mitigation, emergency response and post disaster rehabilitation.

4.11 ADPC (Asian Disaster Preparedness Center)

Established : ADPC programme was established in 1986 and since then it has grown and developed to demonstrate a wide diversity in application from addressing

all types of disasters to all aspects of disaster management spectrum - prevention and mitigation, preparedness and **response**, to reconstruction and rehabilitation endeavour. There are currently two programmes that are active.

4.11 a Asian Urban Disaster Mitigation Programme (AUDMP)

Establishment : The AUDMP, launched in 1995, is ADPC's first major regional programme. The programme with its core funding from USAID/OFDA currently works in eight countries of the region. It is a four year regional programme with plans for extension to six years) designed to make cities safer from disasters.

Objective : The goal of the programme is to reduce the disaster vulnerability of urban populations, infrastructure, critical facilities and shelter in targeted cities in **Asia**, and to promote replication and adaptation of successful mitigation measures throughout the region.

Ongoing projects : National demonstration projects are currently underway in 6 countries; Cambodia, **India**, Indonesia, **Nepal**, Philippines and Sri Lanka. The Asian Disaster Mitigation Training Network (ADMIT) was launched on 17 May 1999 at second presentation of Urban Disaster Mitigation course.

4.11 b Programme for Enhancement of Emergency Response (PEER) :

Establishment : The Programme, a collaborative initiative of Miami-Dade Fire Rescue's Disaster Preparedness and Response Bureau, United States Office of Foreign Disaster Assistance (OFDA) and ADPC, was started in October 1998.

Objective : The main purpose of the programme is to develop and strengthen search and rescue training capabilities in Asia at the regional, sub-regional and national levels. This is the first initiative of its kind that will impart skills and enhance the expertise of the four target countries (India, Nepal and Philippines) to provide effective and coordinated on scene management of rescue and medical response needs following a disaster.

5. List of Cooperations Among ARF participants

The following tables lists down the past bilateral cooperation between the ARF countries and bilateral and multilateral cooperation between ARF countries and international organisations. The list is a result of the response received from the country and information gathered from other sources such as the ADPC library, websites of Ministry of Foreign Affair, UN agencies and other disaster links. The following tables first list down the **past cooperation, country wise** and then lists down the **agreements for future cooperation**.

5.1 Past Cooperation

Australia

| No. | Type of Disaster | Location (Country) of disaster | Year (s) of disaster | Country or Organisation providing assistance | Country or Organisation receiving assistance | Kind of assistance | Framework of Co-operation |
|-----|-----------------------------|--------------------------------|----------------------|--|--|--|---------------------------|
| 1 | Tsunami (Seismology) | PNG | 1998 | AUSAID, through EMA | PNG | Emergency Medical, Air Transport, Expertise | AH |
| 2 | Drought (Meteorological) | PNG | 1997-98 | AUSAID, through EMA | PNG | Food relief, Seeds, Air Transport, Expertise | AH |
| 3 | Drought (Meteorological) | Indonesia | 1998 | AUSAID | Indonesia | Food Relief, Air Transport | AH |
| 4 | Earthquake (Seismology) | Indonesia | 1995 | AUSAID, through EMA | Indonesia | Shelter Materials | AH |
| 5 | Volcano Eruption | PNG | 1994 | AUSAID, through EMA | PNG | Air Transport, Food, Shelter Material | AH |
| 6 | Cyclone (Meteorological) | PNG | 1993 | AUSAID, through EMA | PNG | Air Transport | AH |
| 7 | Earthquake (Seismology) | PNG | 1993 | AUSAID, through EMA | PNG | Air Transport, Shelter Materials, Water Containers | AH |
| 8 | Floods (Meteorological) | Cambodia | 1991 | AUSAID, through EMA | Cambodia | Air Transport, Boats, Food Bridging | AH |
| 9 | Forest Fire (Environmental) | Indonesia | 1991 | AUSAID, through EMA | Indonesia | Expertise | AH |
| 10 | Earthquake (Seismology) | Philippines | 1990 | AUSAID, through EMA | Philippines | Shelter Materials | AH |

Cambodia

| No. | Type of Disaster | Location of disaster in Cambodia | Year of Disaster | Organisation providing assistance | Organisation delivering assistance to Cambodia | Kind of assistance | Framework of Cooperation |
|-----|---------------------|---|------------------|-----------------------------------|--|---|--------------------------|
| 1 | Typhoons/Storms | Southern provinces | 1997,1998 | CRC NCOM | - | Relief Workers, Kit | AH |
| 2 | Floods/Flash Floods | Provinces along Mekong river | 1991,1995,1996 | CRC,NCOM,UN agencies | CRC,WFP,ECHO | Financial, Food, Medicine, relief Works, Repair of infrastructure | AH |
| 3 | Drought (El Nino) | Nearly all provinces | 1997 | NCDM, CRC,FAO,WFP | - | - | - |
| 4 | Air Crash | International airport and north east province | 1997, 1998 | NCDM,SAR | • | Relief workers, Personnel and casualty management | FPA |
| 5 | Landslides | Along Mekong river | 1995-96-97-98 | CRC, NCOM | - | Food and Shelter | - |
| 6 | Water shortage | Nearly all provinces | 1997-98 | FAO, WFP,CRC | - | Pumping | - |
| 7 | Health and epidemic | North western and north eastern province | 196,1997 | WHO | WHO, CRC | Personnel and casualty , medicine, Training | AH |
| 8 | Displacement | Bordering provinces | 1991-1998 | UNHCR, UNDP, CRC, WFP, NCOM | UNHCR, CRC, WFP | Shelter, food, medicine, financial assistance | AH |
| 9 | Chemical forsening | Jeopest | 1998-1999 | National Defense, | - | Transport, volunteer mobilisation | AH |

China

| No. | Type of Disaster | Location (Country) of disaster | Year (s) of disaster | Country or Organisation providing assistance | Country or Organisation receiving assistance | Kind of assistance | Framework of Co-operation - <i>ad hoc</i> : AH |
|-----|------------------|--------------------------------|----------------------|--|--|-----------------------------------|--|
| 1 | Earthquake | China | 1998 | UNDP | China | Medicine, food, temporary shelter | AH |
| 2 | Flood | China | 1998 | UNDP | China | Temporary shelter | AH |
| 3 | Earthquake | China | 1996 | UNDP | China | Financial | AH |
| 4 | Snow storms | China | 1996 | UNDP | China | Financial | AH |
| 5 | Flood | China | 1997 | UNDP | China | Financial | AH |

European Union

| No. | Type of Disaster | Location of disaster | Year (s) of disaster | Country or Organisation providing assistance | Organisation delivering assistance to affected countries | Kind of assistance |
|-----|--|-------------------------------|----------------------|--|--|---|
| 1 | Disaster Preparedness post floods, storms and typhoons | Philippines : Quezon Province | 1996, 1997, 1998 | European Commission (ECHO) | Action d' Urgence Internationale (France) | Training, raising awareness, management plan, reinforcement of local partners |

| | | | | | | |
|----|--|---|---------------------|-------------------------------|--|--|
| 2 | Disaster preparedness Mekong Floods | Cambodia : Kampong Cham Province | 1996, 1997, 1998 | European Commission (ECHO) | Action Against Hunger (France) | Development of local capacity, implementation and rehabilitation of emergency zone for flood victims, Early warning System |
| 3 | Disaster Preparedness | Cambodia : Phnom Penh | 1998 | European Commission (ECHO) | Centre for research on the Epidemiology of disasters (Belgium) | Development and implementation of a disaster plan at national level, later reproduced at regional level , collaboration with different partners in the region (Thailand, Laos, Cambodia, Vietnam) |
| 4 | Disaster Preparedness | Cambodia : Kampong Cham, Prey Veng, Battambang, T akeo | 1998 | European Commission (ECHO) | French Red Cross | Reinforcement of the first aid department of the Cambodian Red Cross and of the first aid/emergency network in Phnom Penh |
| 5 | Disaster Preparedness (forest fire, drought) | Indonesia | 1998 | European Commission (ECHO) | Oxfam (UK) | Network of NGOs, standards of information-gathering in country , analyse the severity of emergency situations sharing these analyses with other international stakeholders. |
| 6 | Disaster Preparedness (floods) | Laos | 1998 | European Commission (ECHO) | Care International (Belgium) | Training, distribution of rice seed/ vegetable crops, construction of small scale village based infrastructure to enable flood control. |
| 7 | Disaster preparedness (Drought) | Laos | 1998 | European Commission (ECHO) | CESVI (Italy) | Training of trainers on safe slash and burn procedures and more intensive use of slashed and burned land prevention of forest fires. |
| 8 | Disaster Preparedness & Prevention (Floods and Cyclones) | Vietnam : Quang Binh Provinces | 1994, 1997, 1998 | European Commission (ECHO) | Associazione parta Partecipazione allo Silvuppo (Italy) | Reforestation, Stabilisation of coastal dunes, exchange of information and experience with similar programmes in Indonesia and Cambodia |
| 9 | Disaster Preparedness (Floods, Typhoons) | Vietnam : Quang Binh provinces | 1998 | European Commission (ECHO) | IFRC | Strengthening of Vietnam Red Cross Preparedness to respond in disaster situations |
| 10 | Disaster Preparedness (floods, typhoons, storms) | Vietnam : Lai Chau , Thanh Hoa and Can Tho provinces | 1998 | European Commission (ECHO) | UNDP | Community based disasters preparedness training program |

European Commission : Humanitarian Aid Operations

| No. | Type of Disaster | Location (Country) of disaster | Year (s) of disaster | Country or Organisation providing assistance | Organisation delivering assistance to affected countries | Kind of assistance |
|-----|------------------|--------------------------------------|-------------------------|--|--|---|
| 1 | Forest Fires | Indonesia | 1998 | European Commission (ECHO) | Caritas/Merlon | Medical assistance, food, sanitation, water |
| 2 | Drought | Indonesia | 1997 | European Commission (ECHO) | MSF/ICRC | Water, medical , food aid |
| 3 | Flooding | Laos | 1996 | European Commission (ECHO) | Action Nord, Sud/Care | Food, medical assistance, emergency kits |
| 4 | Drought | Laos | 1998 | European Commission (ECHO) | Cesvi / Action. Nord Sud/Care | Food, water, health, sanitation |

| | | | | | | |
|----|-------------------|-------------------------|-------------|----------------------------|-------------------------------------|--|
| 5 | Volcanic eruption | Philippines | 1991 | European Commission (ECHO) | MSF/EED/PBSP/PRRM | Medica |
| 6 | Typhoon | Philippines | 1995 | European Commission (ECHO) | IFRC/MSF/MDM/Danchurachaid | Relief items, food, medicines |
| 7 | Drought | Philippines | 1998 | European Commission (ECHO) | Spanish Red Cross/Caritas | Food aid, health assistance |
| 8 | Typhoon | Vietnam | 1997 | European Commission (ECHO) | IFRC/MSF/Care | Relief items, medical assistance, food |
| 9 | Typhoon | Vietnam | 1998 | European Commission (ECHO) | IFRC/MSF | Relief items, food, health assistance |
| 10 | Epidemic | Epidemic (dengue fever) | 1998 | European Commission (ECHO) | IFRC/Spanish Cross/Cesvi/MSF | Red Medical assistance , sanitation |

India

| No. | Type of Disaster | Location (Country) of disaster | Year (s) of disaster | Country or Organisation providing assistance | Country or Organisation receiving assistance | Kind of assistance | Framework of Co-operation |
|-----|------------------|--------------------------------|----------------------|--|--|--------------------|----------------------------------|
| 1 | Meteorological | Andhra Pradesh | 1990 | World Bank | Govt. of India / Govt. of A.P. | Expertise | Formal Agreement |
| 2 | Seismology | Uttar Pradesh | 1991 | - | - | - | |
| 3 | Seismology | Maharashtra | 1993 | World Bank | Govt. of India /Govt. of A.P. | Expertise | Formal Agreement |
| 4 | Meteorological | Northern part | 1995 | - | - | - | |
| 5 | Seismology | Madhya Pradesh | 1997 | - | - | - | |
| 6 | Environmental | Uttar Pradesh | 1998 | - | - | - | |
| 7 | Meteorological | Gujarat | 1998 | World Bank | Govt. of India /Govt. of A.P. | Expertise | Under Consideration |
| 8 | Seismology | Uttar Pradesh | 1999 | - | - | - | |

Indonesia

| No. | Type of Disaster | Country of disaster | Year (s) of disaster | Country or Organisation providing assistance | Country or Organisation receiving assistance | Kind of assistance | Framework of Cooperation |
|-----|------------------------------|---------------------------------|----------------------|--|--|---|--------------------------|
| 1 | Earthquake and Tsunami | Flores Island | 1992 | Japan, Malaysia, Singapore | Indonesia | Food, Clothing, Shelter, Medicine | - |
| 2 | Earthquake | Liwi, Lampung | 1994 | Japan, Saudi Arabia, UNDP | Indonesia | Food, Shelter, Medicine | - |
| 3 | Earthquake and Tsunami | Ranyuwangi, East Java | 1994 | Japan, Australia | Indonesia | Advisory, Assessment | - |
| 4 | Tsunami | Blak | 1995 | Japan, USA, UNDP | Indonesia | Food, Clothing , Shelter, Medicine | - |
| 5 | Volcanic Eruption | Merapi, Yogyakarta | 1996 | Japan, UNDP | Indonesia | Surgeon, Medicine | - |
| 6 | Air Crash | Medan, Palembang | 1997 | Singapore | Indonesia | Search and Rescue | - |
| 7 | Forest Fire, Haze, Pollution | Sumatra, Kalimantan | 1997-98 | Japan, Malaysia, Singapore, Norway, Australia, USA | Indonesia | Advisory, fire Fighting Equipment, Fire Fighter | - |
| 8 | Drought and Famine | Jayawijaya, Irianjaya | 1997 | Japan, Australia | Indonesia | Food, Medicine, Assessment | - |
| 9 | Flood | Aceh | 1996 | USA | Indonesia | Medical Equipment | - |
| 10 | Civil Unrest | Jakarta, Ambon, West Kalimantan | 1998/99 | UNDP, UNCHR, Saudi Arabia | Indonesia | Food, Medical Supply, Equipment | - |

Japan

| No. | Type of Disaster | Country | Date Aid was Determined | Kind of Assistance |
|-----|--------------------|------------------|---|---|
| 1 | Earthquake | Philippines | 17 July 1999 18 Jun 1990 27 Jun 1990 | Rescue Team (26 members) (18 Jul-26 Jul), Medical team (8 members) ,(17 Jul-24 Jul),Emergency Supplies (Medicine, Generator , etc.) Emergency Grant Aid (US\$300,000) Expert Team (8 members) (29 Jul-7 Aug) |
| 2 | Typhoon | Philippines | 8 Nov. 1991 11 Nov. 1991 | Emergency Supplies (Medicine , Tent, etc) Emergency Grant Aid (US\$800,000) Medical Team (6 members) (11 Nov-3 Nov) |
| 3 | Earthquake | Indonesia | 14 Dec.1992 18 Dec.1992 | Emergency Supplies (Medicine, Tent,etc.) Emergency Grant Aid (US\$1,000,000) Expert Team (8 members) (20 Dec-30 Dec) |
| 4 | Building Collapse | Malaysia | 13 Dec. 1993 | Rescue Team (24 members) (13 Dec-20 Dec) Emergency Supplies (Rescue Tools, etc.) |
| 5 | Volcano Eruption | Indonesia | 25 Nov. 1994 | Expert Team (5 members) (27 Nov-13 Dec) Emergency Supplies (Medical Equipments) |
| 6 | Earthquake-Tsunami | Indonesia | 24 Feb. 1996 29 Feb.1996 | Expert Team (3 member) (26 Feb-5 Mar) Emergency Supplies (Tent, Generator, etc) Emergency Grant Aid (US\$200,000) |
| 7 | Air Pollution | Malaysia | 24 Sept. 1997 26 Sept. 1997 | Emergency Supplies, (Back Pack Pump) Expert Team (6 members) (29 Sep-10 Oct) |
| 8 | Forest Fire | Indonesia | 24 Sept 1997 26 Sept. 1997 9 Oct. 1997 20 Oct.1997 | Emergency Supplies (Back Pack Pump) Expert Team (6 members) (29 Sept-10 Oct) Emergency Supplies (Mobil Pump,etc) Expert Team (44 member) (22 Oct-11 Nov) |
| 9 | Oil Spill Incident | Singapore | 17 Oct. 1997 | Expert team (7 members) (18 Oct-11 Nov) |
| 10 | Tsunami | Papua New Guinea | 21 Jul. 1998 23 Jul. 1998 | Medical Team (11 members) (21 Jul-3 Aug) Emergency Supplies (Tent, Plastic Sheeting, etc) Emergency Grant Aid (US\$300,000) |

Lao PDR

| No | Type of Disaster | Country of disaster | Year (s) of disaster | Country or Organisation providing assistance | Country or Organisation receiving assistance | Kind of assistance | Framework of Co-operation |
|----|------------------|---------------------|----------------------|--|--|--------------------|---------------------------|
| 1 | Flood | Central | 1990 | None | None | None | None |
| 2 | Flood | Central | 1991 | None | None | None | None |
| 3 | Flood & Drought | Central, Northern | 1992 | None | None | None | None |

| | | | | | | | |
|---|---|--------------------------------|------|---|---------------|----------------------|--|
| 4 | Flood, forest and Drought | Central, Southern | 1993 | Gpvt. Of Canada, Australia, European Union, Netherland, Vietnam, Japan, World Vision Organisation, Concern World Wide | Govt. of Laos | Rice and Instruments | Central: Ministry of Labour and Social welfare, Ministry of Foreign Affairs and Prime Ministers Office. Local : Provincial Social Welfare Department and District Social Welfare Office |
| 5 | Flood | Central, Southern | 1994 | Govt. of Japan, Myanmar, Belgium, Germany | - | - | - |
| 6 | Large Flood | Central, Southern | 1995 | - | - | - | - |
| 7 | Large Flood, Flash Flood and Landslides | Central, Southern and Northern | 1996 | - | - | - | - |
| 8 | Flood | Southern | 1997 | - | - | - | - |
| 9 | Big Drought, Village Fires | Southern | 1998 | " | " | " | " |

Malaysia

| No. | Type of Disaster | Location of disaster in Cambodia | Year of Disaster | Countries providing assistance | Countries delivering assistance | Kind of assistance | Framework of Cooperation |
|-----|------------------------------|----------------------------------|-------------------|--------------------------------|---------------------------------|---|--------------------------|
| 1 | Collapsed Building | Hulu Kelang, Malaysia | December 11, 1993 | Singapore, Japan, France | - | Search and rescue | AH |
| 2 | Forest Fire / Haze Pollution | Malaysia and Indonesia | September, 1997 | France, Japan | Indonesia, Malaysia | Manpower, Expertise, Health, military civil defense assets, equipment | AH and FPA |

Myanmar

| No. | Type of Disaster | Location (Country) of disaster | Year (s) of disaster | Country or Organisation providing assistance | Country or Organisation receiving assistance | Kind of assistance | Framework of Co-operation |
|-----|------------------|--------------------------------|----------------------|--|--|-------------------------------|---------------------------|
| 1 | Fire | Meiktila | 1991 | JICA (Japan) | RRD (Myanmar) | Hardware/Equipment and Relief | AH |
| | | | | Israel | RRD (Myanmar) | Hardware/Equipment and Relief | AH |
| | | | | Republic of Korea | RRD (Myanmar) | Hardware/Equipment and Relief | AH |
| | | | | UNDP | RRD (Myanmar) | Hardware/Equipment and Relief | AH |
| 2. | Flood | Ayeyawady | 1991 | JICA (Japan) | RRD (Myanmar) | Hardware/Equipment and Relief | AH |
| | | | | People's Republic of China | RRD (Myanmar) | Hardware/Equipment and Relief | AH |
| | | | | UNDP | RRD (Myanmar) | Hardware/Equipment and Relief | AH |
| | | | | WHO | RRD (Myanmar) | Hardware/Equipment and Relief | AH |
| 3. | Flood | Lao | 1994 | Myanmar | Lao | Hardware/Equipment and Relief | AH |

| | | | | | | | |
|----|-------|--------------------------------|------|-------------------|---------------|---|----|
| 4. | Flood | Cambodia | 1996 | Myanmar | Cambodia | Hardware/Equipment and Relief | AH |
| 5. | Flood | 12 States and Division Myanmar | 1997 | JICA (Japan) | RRD (Myanmar) | Hardware/Equipment and Relief Financial | AH |
| | | | | India | RRD (Myanmar) | Hardware/Equipment and Relief | AH |
| | | | | Bangladesh | RRD (Myanmar) | Hardware/Equipment and Relief | AH |
| | | | | Republic of Korea | RRD (Myanmar) | Financial | AH |
| | | | | Indonesia | RRD (Myanmar) | Financial | AH |

New Zealand

| No. | Type of Disaster | Location (Country) of disaster | Year (s) of disaster | Country or Organisation providing assistance | Country or Organisation receiving assistance | Kind of assistance | Framework of Co-operation - <i>ad hoc</i> : AH - <i>under a formal prior agreement</i> : FPA |
|-----|------------------|--------------------------------|----------------------|--|--|--------------------|---|
| 1 | 1 | Pacific | 1990 | New Zealand | Western Samoa | 2,3,4,5,6,7,9 | AH |
| 2 | 1 | Western Samoa | 1991 | New Zealand | Western Samoa | 2,3,4,5,6,7,9 | AH |
| 3 | 1 | Fiji | 1993 | New Zealand | Fiji, Fiji | 4,5,6,7 | FPA |
| 4 | 1 | Solomon Islands | 1993 | New Zealand | Solomon Islands | 4,5,6,7,9 | FPA |
| 5 | 2 | Papua New Guinea | 1998 | New Zealand | Papua New Guinea | 2,3,4,5,6,7 | FPA |

Papua New Guinea

| No. | Type of Disaster | Country of disaster | Year (s) of disaster | Country or Organisation providing assistance | Country or Organisation receiving assistance | Kind of assistance | Framework of Co-operation |
|-----|------------------|---------------------|----------------------|--|--|---------------------------------|---------------------------|
| 1 | Tsunami | PNG | 1998 | New Zealand | PNG | Medical Teams, Supplies, Stores | AH |
| 2 | Tsunami | PNG | 1998 | France | PNG | Medical Team | AH |
| 3 | Tsunami | PNG | 1998 | USA | PNG | Health Expert, Doctors | AH |
| 4 | Tsunami | PNG | 1998 | Japan | PNG | Medical Team | AH |
| 5 | Drought | PNG | 1997-98 | New Zealand | PNG | Expert, | AH |

Philippines

| No. | Type of Disaster | Country of disaster | Year (s) of disaster | Country or Organisation providing assistance | Country or Organisation receiving assistance | Kind of assistance | Framework of Co-operation |
|-----|------------------|---------------------|----------------------|--|--|--------------------|---------------------------|
| 1 | Earthquake | Philippines | 1990 | Singapore | Philippines | Rescue Operation | AH |

Russian federation

| No. | Type of Disaster | Location (Country) of disaster | Year (s) of disaster | Country or Organisation providing assistance | Country or Organisation receiving assistance | Kind of assistance | Framework of Co-operation |
|-----|------------------|--------------------------------|----------------------|--|--|--------------------|---------------------------|
| 1 | Floods | Yakutia . Russian Federation | 1998 | EMERCOM/Japan | Local Government | 1,2,3,4,6,7 | Federal Law |
| 2 | Forest Fire | Indonesia | 1997 | EMERCOM | Govt. of Indonesia | 3 | Federal Law |

Republic of Korea

| No. | Type of Disaster | Location (Country) of disaster | Year (s) of disaster | Country or Organisation providing assistance | Country or Organisation receiving assistance | Kind of assistance | Framework of Co-operation |
|-----|-------------------------------|--------------------------------|----------------------|--|--|---------------------------------|---------------------------|
| 1 | Meteorological | China | 1991 | ROK | China | Financial Assistance | AH |
| 2 | Meteorological | Vietnam | 1992 | ROK | Vietnam | Financial Assistance | AH |
| 3 | Earthquake (Seismology) | India | 1993 | ROK | India | Financial Assistance | AH |
| 4 | Meteorological | China | 1994 | ROK | China | Financial Assistance | AH |
| 5 | Earthquake (Seismology) | Japan | 1995 | ROK | Japan | Equipment | AH |
| 6 | Earthquake (Seismology) | Russia | 1995 | ROK | Russia | Equipment | AH |
| 7 | Meteorological and Seismology | China | 1996 | ROK | China | Financial Assistance, Equipment | AH |
| 8 | Forest Fire (Environmental) | Indonesia | 1997 | ROK | Indonesia | Financial Assistance | AH |
| 9 | Floods (Meteorology) | China | 1998 | ROK | China | Financial Assistance | AH |
| 10 | (Meteorology) | Vietnam | 1998 | ROK | Vietnam | Financial Assistance | AH |

Singapore

| No. | Type of Disaster | Country of disaster | Year (s) of disaster | Country or Organisation providing assistance | Country or Organisation receiving assistance | Kind of assistance | Framework of Co-operation |
|-----|----------------------------|---------------------|----------------------|--|--|---------------------------------------|---------------------------|
| 1 | Seismology and Valcanology | Philippines | 1990 | Singapore | Philippines | Health, Hardware/Equipment and Relief | AH |
| 2 | Seismology and Valcanology | Philippines | 1991 | Singapore | Philippines | Health, Hardware/Equipment and Relief | AH |
| 3 | Seismology and Valcanology | Indonesia | 1992 | Singapore | Indonesia | Health, Hardware/Equipment and Relief | AH |
| 4 | Seismology and Valcanology | Indonesia | 1992 | Singapore | Indonesia | Health, Hardware/Equipment and Relief | AH |
| 5 | Meteorological | China | 1994 | Singapore, Through Salvation Army | China | Health | AH |
| 6 | Seismology and Valcanology | Indonesia | 1995 | Singapore | Indonesia | Health, Hardware/Equipment and Relief | AH |

| | | | | | | | |
|----|-------------------|------------------------------|------|----------------------------------|-------------|-------------------------------|----|
| 7 | Meteorological | Cambodia | 1996 | Singapore | Cambodia | Health | AH |
| 8 | Meteorological | Laos | 1997 | Singapore | Laos | Health | AH |
| 9 | Environment | Indonesia | 1997 | Singapore | Indonesia | Military Civil Defense Assets | AH |
| 10 | Meteorological | Laos | 1997 | Singapore | Vietnam | Health | AH |
| 11 | Earthquake | Baguio, Philippines | 1990 | Singapore Civil Defense Force | Philippines | Search and Rescue | AH |
| 12 | Building Collapse | Kuala Lumpur, Malaysia | 1993 | Singapore Civil Defense Force | Malaysia | Search and Rescue | AH |

Thailand

| No. | Type of disaster | Location (Country) of disaster | Year(s) of disaster | Country or Organisation providing assistance | Country or Organisation receiving assistance | Kind of Assistance | Framework of Cooperation |
|-----|--|--------------------------------|---------------------|--|--|----------------------|--------------------------|
| 1. | Explosion of Chemical | Thailand | 1991 | Sweden | Port Authority of Thailand | Expertise | AH |
| 2. | Flood | Thailand | 1995 | UNDP | Ministry of Interior | Equipment | AH |
| 3. | Typhoon LINDA | Vietnam | 1997 | Thailand | Vietnam | SAR | AH |
| 4. | Environmental (forest fire and haze pollution) | Indonesia | 1997 | Thailand | Indonesia | Expertise/Man. power | AH |

USA

| No. | Type of Disaster | Location (Country) of disaster | Year (s) of disaster | Country or Organisation providing assistance | Country or Organisation receiving assistance | Kind of assistance | Framework of Co-operation <i>- ad hoc : AH</i> |
|-----|-------------------|--------------------------------|------------------------------|--|--|--------------------|---|
| 1 | (1) Floods | Myanmar | '95, '97 | US OFDA | '95 - UNDP | 5, 7 | AH |
| 2 | (2) Volcano Lahar | Philippines | '91, '92, '93, '94, '95, '96 | US OFDA US Dept. of Defence | Philippine Gov't. & PNRC | 3, 4, 5, 6, 7 | AH |
| 3 | (2) Earthquakes | Indonesia | '92, '94, '95, '96 | US OFDA US Dept. of Defence | Indonesian Gov't. | 6 | AH |
| 4 | (1) Floods | PR China | '96 | US OFDA, US Dept. of Defence | PRC & MSF | 6 | AH |
| 5 | (2) Earthquakes | Japan | '95 | US OFDA, US Dept. of Defence | Japan | 6 | AH |
| 6 | (5) Epidemic | Malaysia | '99 | US OFDA & CDC | Malaysia (MOH) | 3 | AH |
| 7 | (1) Typhoon/Flood | Vietnam | '96, '98 | US OFDA | WRD & UNDP | 6 | AH |
| 8 | (2) Earthquake | India | '93 | US OFDA | Govt. of India | 6,7 | AH |
| 9 | (5) Displacement | Cambodia | '92 | US OFDA, US Dept of State | UNCHR, ECRC, WFP | | |
| 10 | (1) Floods | Lao FDR | '96, '98 | US OFDA | WVRD, CARE | 6,7 | AH |

Vietnam

| No. | Type of Disaster | Location (Country) of disaster | Year (s) of disaster | Country or Organisation providing assistance | Country or Organisation receiving assistance | Kind of assistance | Framework of Co-operation - <i>ad hoc</i> : AH |
|-----|---|--|----------------------|---|--|---|--|
| 1 | Typhoon (Typhoon Linda) | Mekong delta of Vietnam | Nov. 1997 | USA,UK,France,Switzerland,Australia,Germany,Luxembourg,Japan,Belgium,EU, etc. | Vietnamese government, local authorities of affected areas | Food, clothing, shelter, medicine, fuel, transport facilities Rehabilitation of infrastructure, environment, mangrove forests etc. | |
| 2 | Flooding | Red River Delta Central Region and Southern Region | 1996 | | | | |
| 3 | Drought | Central Highland, Central Region, Mountainous area of North Vietnam | 1998 | | | | |
| 4 | Typhoon (Frankie Typhoon, Tropical Depression in August, Nik Typhoon) | North of Vietnam | 1996 | | | | |
| 5 | Flood | Central Region | 1998 | | | | |
| 6 | Flood | Mekong Delta | 1994 | | | | |
| 7 | Flood | Mekong Delta | 1995 | | | | |
| 8 | Flash Flood | North-West Mountainous area of Vietnam (Muong Lay-Lai Chau Province) | 1990 | | | | |
| 9 | Typhoon (Typhoon Kyle, Typhoon Lela) | Central region | 1993 | | | | |
| 10 | North-East Monsoon wind in South China Sea | Coastal provinces in North and Central Region | 1991 | | | | |

Agreements for Future Cooperation

Australia

| No. | Title or Scope of Agreement | Partner country (s) or Organisation (s) | Date of Agreement | Type of Disaster | Kind of cooperation | Framework of Cooperation |
|-----|------------------------------------|---|-------------------|------------------|---|--------------------------|
| 1 | Military Cooperation ¹ | Indonesia | 1997 | Tsunami | Joint Exercise | F (Defence) |
| 2 | Military Cooperation ¹ | Philippines and USA | 1998 | Earthquake | Joint Exercise | F (Defence) |
| 3 | Emergency Cooperation ² | New Zealand | 1998 | All | Personnel, equipment, supplies, systems, services, training standards | F |

1 : These are exercises only and not necessarily formal agreements to assist in case of real disasters
 2 : Source from the internet (<http://home.ema.gov.au/docs/mediarelease/agreementsigned.htm>)

Cambodia

| No. | Title or Scope of Agreement | Partner country (s) or Organisation (s) | Date of Agreement | Type of Disaster | Kind of co-operation | Framework of Co-operation |
|-----|--|---|-------------------|---|---|--|
| 1 | Capacity Building for Integrated Disaster Management | UNDP, ADPC | 26 Dec. 1996 | Typhoons, Floods, Drought, El Nino, air Crash, Land slides, Water shortage, Epidemics, Displacement | Consultancy, Advisory, Technical Training, Information and Exchange | Emergency relief, preparedness programme, prevention, post disaster rehabilitation |

China

| No. | Title or Scope of Agreement | Partner country (s) or Organisation (s) | Date of Agreement | Type of Disaster | Kind of cooperation | Framework of Cooperation formalised - F under consideration • UF |
|-----|---|---|-------------------|-------------------------|---------------------|--|
| 1. | Flood Control Project Agreement | Swiss Government | December 1995 | Flood, mudflow | 3, 6 | F |
| 2 | Disaster Reduction Plan Project Agreement | UNDP | July 1994 | Comprehensive disasters | 3, 6, 7 | F |
| 3 | Earthquake Assistance Project | UNDP | September 1998 | Earthquake | 3, 7 | F |

Country : India

| No. | Title or Scope of Agreement | Partner country (s) or Organisation (s) | Date of Agreement | Type of Disaster | Kind of cooperation | Framework of Cooperation formalised - F under consideration • UF |
|-----|-----------------------------|---|-------------------|------------------|--------------------------------------|---|
| 1. | Capacity Building | UNDP | Sept. 1997 | All Disasters | Expertise & Communication Equipment | Formalized |
| 2. | Information Sharing | ADRC | Oct. 1998 | -do- | Information Exchange & Communication | Formalized |

Indonesia

| No. | Title or Scope of Agreement | Partner country (s) or Organisation (s) | Date of Agreement | Type of Disaster | Kind of cooperation | Framework of Cooperation |
|-----|--|---|-------------------|----------------------------------|--|--------------------------|
| 1 | Area of Emergency and Disaster Management Services | Dept. Of Emergency Services Cucens Land Australia | 13 dec. 1996 | Natural and Man Made Disasters | Consultancy, Advisory, Technical training | - |
| 2 | Disaster Cooperation and Assistance | Govt. of Malaysia | 11 Dec. 1997 | Forest fire and Hazard Pollution | Info Exchange, joint operation and exercises | • |
| 3 | Education and Training | ADPC. AIT, Bangkok | - | Natural and Man Made disasters | Consultancy, Advisory, Technical training | - |

Japan

| No. | Title or Scope of Agreement | Partner Organisation (s) | Date of Agreement | Type of Disaster | Kind of cooperation | Framework of Cooperation |
|-----|-----------------------------|--------------------------|-------------------|------------------|---|--------------------------|
| 1 | Emergency Activities | DHA/WMO/DNDRD TRUST FUND | EVERY YEAR | All | Emergency relief activities and financial aid | F |

Lao PDR

| No. | Title or Scope of Agreement | Partner country (s) or Organisation (s) | Date of Agreement | Type of Disaster | Kind of cooperation | Framework of Cooperation |
|-----|---------------------------------|---|-------------------|------------------|--|---|
| 1 | Emergency Family Food Project | Ministry of Labour and Social Welfare and Care Int. in Laos | 30/3/1999 | Drought | Relief, Rehabilitation (Food and work) | Central: Ministry of Labour and Social welfare, Ministry of Foreign Affairs and Prime Ministers Office. Local : Provincial Social Welfare Department and District Social Welfare Office |
| 2 | Food for Work Emergency Project | Ministry of Labour and Social Welfare & NGO's CESVI | 3/2/1999 | Drought | Rehabilitation | - |

Malaysia

| No. | Title or Scope of Agreement | Partner country (s) or Organisation (s) | Date of Agreement | Type of Disaster | Kind of co-operation | Framework of Co-operation |
|-----|---|--|-------------------|--------------------------------|----------------------|---------------------------|
| 1 | Memorandum of Understanding b/w the Govt. of Malaysia and the Govt. of Republic Indonesia on Disaster Cooperation and Assistanr.fi | Indonesia (BAKORNAS-PB) National Disaster Management | December 11, 1997 | Natural and man made disasters | 1-8 | F |
| 2 | Agreement between The Govt. of Malaysia and The Govt. of the French Republic on Cooperation for Disaster Prevention and Management and Public | The French Government. | May 25, 1998 | Natural and Man made disasters | 1-8 | F |

Republic of Korea

| No. | Title or Scope of Agreement | Partner country (s) or Organisation (s) | Date of Agreement | Type of Disaster | Kind of co-operation | Framework of Co-operation |
|-----|---|---|---------------------------|---|----------------------|---------------------------|
| 1 | Organisational modality and operating expenses of the Asian Disaster Reduction Centre | AORC (Asian Disaster Reduction Centre) | 3 rd June 1998 | Floods, Cyclones and Earthquakes) Meteorology and Seismic | Information Exchange | |

Thailand

| No. | Title of Agreement | Partner Country (s) or Organization (s) | Date of Agreement | Type of Disaster | Kind of Cooperation | Framework of Cooperation |
|-----|---|---|-------------------|------------------------|---------------------|--------------------------|
| 1. | Establishment of Flood Forecasting Model | Denmark | 1994 | Flood | Expertise | F |
| 2. | National Safety Development Program | Sweden | 1995 | Explosion of Chemicals | Expertise | F |
| 3. | Disaster Management for Transportation of Hazardous Substance | Germany | 1996 | Haz Mat Transportation | Expertise | F |
| 4. | Drought Assistance/ Relief | OCHA | 1999 | Drought | Under Consideration | - |

Vietnam

| No. | Title or Scope of Agreement | Partner country (s) or Organisation (s) | Date of Agreement | Type of Disaster | Kind of cooperation | Framework of Cooperation <i>formalised- F</i> <i>under consideration - UF</i> |
|-----|--|---|-------------------|---------------------|---------------------|---|
| 1. | Disaster Management Unit (VIE/93/031; VIE/97/002) | UNDP | 1993 | Disaster Management | Technologytransfer | Share funding between Vietnam and UNDP |

Miscellaneous Agreements (Not Confirmed)

| No. | Title or Scope of Agreement | Partner country (s) or Organisation (s) | Date of Agreement | Type of Disaster (refer List A,pg3) | Kind of co-operation (refer list B,pg3) | Framework of Co-operation |
|-----|---|--|-------------------|--|--|---------------------------|
| 2 | Activate agreement 1 | Malaysia and Indonesia | May 1998 | Forest fires (Smog) | Called for International support | F |
| 3 | Disaster Prevention and Management and Public Safety | Malaysia and France | May 1998 | All | Exchange of experts, training activities, sharing public health experience, information exchange, technology exchange, Joint exercise, specialist participation. | F |
| 4 | Forest Fire Fighting | Malaysia and Brunei | April 1998 | Forest Fire | Exchange experience in fire fighting, information exchange, | F |
| 5 | Climate Change Bio diversity desertification and Ozone Layer protection | Mongolia and Other Countries | | Climate Change, OzoneLayer | Information exchange ,personal training, joint venture projects | F |
| 6 | International Co-operation | Philippines and Japan, ADPC, Australia | | All | Experttraining, | F |
| 7 | Exchange Programme | Singapore and ASEAN Pacific Countries and Europe | | All | Exchange programme (training, information exchange, expertise) | F |
| 8 | Training | Singapore and Brunei | 1998 | Fire Fighting | Training of Fire fighters | F |
| 9 | Training | SingaporeandMalaysia | 1998 | Fire Fighting | Training SMART | F |
| 10 | Purchasing Wood | Vietnam from Cambodia | 1997 | Tornado | Wood Purchase | F |

6. SOURCES OF INFORMATION

- Directory of International Organisations. 1997-1998.
 - ADPC library
 - DIPECHO diagnostic study
 - Recent country papers at ADRC
 - Donor Humanitarian Assistance Database
<http://www.reliefweb.int/fts/donor-db/mal.html>
 - Australia New Zealand Emergency Cooperation Agreement Signed
(<http://home.ema.gov.au/docs/mediareleases/aQreementsigned.htm>)
 - Media release
<http://www.usaid.gov/media/release/ac15.html>
 - Emergency assistance responding to requests from damaged countries and international organizations
(<http://www.mofa.go.jp/policy/oda/category/disaster/emergency.html>)
 - Japan's Cooperation with Global Disaster Prevention Efforts and Disaster Relief Operations
<http://www.mofa.go.jp/policy/global/disaster/21st/3.html>
 - Emergency Aid to Papua New Guinea for Tsunami Disaster
<http://www.mofa.go.jp/announce/announce/1998/7/723.html>
 - Humanitarian Assistance
<http://www.mofa.go.jp/region/europe/russia/assistance/human.html>
 - Indonesia Receives Offers of Aid to Help Fight Fires
http://www.DisasterRelief.org/Disasters/970925indonesia/index_txt.html
 - United Nations Disaster Assessment and Coordination UNDAC Disaster Response Branch
http://www.reliefweb.int/ocha_ol/programs/response/undac/
 - ESCAP : Geology for Environmental and Urban Planning
<http://www.unescap.org/enrd/minerals/mrsurban.htm>
-

ADPC VISION

Disaster Reduction for Safer Communities and Sustainable Development

Asian Disaster Preparedness Center Foundation (ADPC)
AIT, PO Box 4, Klong Luang, Pathumthani **12120**, Thailand
Tel : (66 2) 5245354; **Fax :** (66 2) 5245360; **Email :** adpc@ait.ac.th
Website : <http://www.adpc.ait.ac.th>