Disaster Emergency Prevention and Mitigation Plan

Applicable to Phi Phi Island
Ao-Nang Sub-district Administrative Organization (ANSAO)
Krabi Province, Kingdom of Thailand
B.E. 2551

References:
1. Disaster Prevention and Mitigation Act B.E. 2550
2. Civil Defence Plan, Krabi Province (B.E. 2550)
3. Civil Defence Plan, ANSAO (B.E. 2550)

1. General situation

Disaster situation nowadays tends to grow up and has high impact, due to the climate change and over-consumption of natural resources. This leads to an unprecedented result such as Green House Effect, El Nino and so on. The change in world’s climate has triggered various types of and more threatening natural phenomena.

In addition, rapid growth of nation’s economy, in which modern technology is preferred to increase production capabilities, together with the multiplicity of population have become another major factors of environmental degradation.

Global environmental change coupled with national increasing growth has induced a number of natural and man-made disaster that become more devastating and complicated.

2. Current situation

Krabi province is located in the Andaman coastline area where a lot of famous islands and beaches are situated. Tourists both Thai and foreigner come to visit Krabi through the year. In particular, several islands such as Phi Phi Island, Lunta Island, Porda, Island, Bamboo Island are considered the world class tourist sites. Apart from this, Krabi is also the important sources of fisheries of the country. Boat, therefore, is the main means of transportation and earnings of the local people.

Phi Phi Island, one of the most famous islands of Krabi province, is situated within the administration of Ao-Nanag Sub-district Administrative Organization
(ANSAO). This Island is 42-kilometer far from ANSAO’s coastline. Its land is crowded with local people, tourists, hotels and restaurants. Accordingly, fire, tsunamis, boat accident and landslide are considered the most common disaster emergencies of this area.

**Fire** is the most frequent disaster of Phi Phi Island. That is because Phi Phi Island is crowded with settlements and business buildings and structures. As a result, once the Island is attacked by fire, tremendous losses and tragic situation cannot be avoided. To better make use of and deal with fire, all residents on the Island should be aware of fire safety conduct and its danger.

**Tsunami** is a series of big sea waves that can cause enormous damage to coastlines. Usually, tsunami is triggered by an earthquake. Underwater landslide or volcanic eruption can also induce tsunami. All settlements located in the coastal area or on the islands are susceptible to tsunamis. Phi Phi Island situated in the Andaman Coast is also vulnerable because its location is near Sumatra Plate boundary and Nicoba Islands where earthquakes frequently occur.

**Boat accident** is regarded as one of the threatening incident to Phi Phi Island’s visitors because the only means of transportation from and to Krabi-Phi Phi Island and Phuket-Phi Phi Island is boat. In addition, as Phi Phi Island is lying in the influence of the South West Monsoon, wind storm can capsize boats.

**Landslide** in Phi Phi Island can be triggered by intensify rainfall, mainly resulted from the South West Monsoon. It destroys everything on its path, leading to loss of lives and properties. Phi Phi Island has several vulnerable areas such as passage to the View Point.

### 3. Objectives

3.1 To save lives and properties of people in the risk areas as well as to conserve natural resources and environment.

3.2 To ensure the safety evacuation.

3.3 To ensure the local disaster preparedness before, during and after emergency.

3.4 To serve as a working guideline for a more systematized coordination and cooperation among agencies concerned.

3.5 To promote participation of all stakeholders, including private sectors, NGOs, and local people, in disaster prevention and mitigation.

### 4. Principles of Operation

Phi Phi Island, one of the most renowned tourist destinations, presently is crowdedly filled with accommodations and facilities for local people and tourists. Consequently, Phi Phi Island is prone to fire and sea accident such as boat accident, tsunamis and landslide. In order to better protect the island
from any hazards, proactive approach should be applied in all operations of disaster preparedness, prevention and mitigation. The followings are a list of principles of operation that can be adopted;

4.1 **Identifying disaster risk areas:** Ports, sea, coral lines, ferry routes, and inland of Moo 7, Ban Koh Phi Phi Village, Phi Phi Island are prone to fire and tsunamis. This area then is divided into 10 risk zones. See ANNEX 1.

4.2 **Assigning evacuation routes:** Due to the crowded area together with the identified risk zones, 12 evacuation routes are designated to facilitate residents of each zone to reach the safety zones safely and timely. See ANNEX 2.

4.3 **Identifying safety zones:** In respect to evacuation routes and the accessibility of the safety zones, a number of shelters on Phi Phi Island are identified. See ANNEX 3.

4.4 **Listing evacuees:** When an emergency occurs, the followings are the target group to be evacuated:

- Local people
- Patients in the hospital
- Students
- Tourists in hotels and resorts
- Tourist entrepreneurs

4.5 **Disseminating disaster information to tourists:**

- **Hotel owners** – This player is responsible for providing disaster emergency information; such as facts about common disaster emergency of the area, how to react to an emergency, emergency telephone numbers, evacuation routes and shelters, to hotel guests.

- **Tourism entrepreneurs** – This player also plays an important role in providing disaster information to tourists. All tourism business holders should have brochures on emergency resource guide that contains details of emergency telephone numbers, shelters, distributed to their customers so that they are well aware of the local emergency management.

- **Tourist guides** – This player, as the media between tourists and local authority, should inform tourists all necessary disaster information such as emergency telephone numbers, early warning systems, shelters, before their scheduled tour programme.

4.6 **Designating agencies in charge:** Agencies or players responsible for emergency management at the local level, including incident commander, operational units, volunteers, and tools and equipment, should be clearly identified to ensure the effective disaster emergency response.
4.7 **Coordinating with agencies concerned:** To better deal with disasters, coordination and cooperation among agencies and partners concerned are pivotal. Information sharing and awareness raising should also be incorporated in this network.

5. **Operational Procedures**

5.1 **Before Emergency**

During this phase, awareness raising must be introduced to all stakeholders, including government agencies, private sector, tourism sector, and tourists, so that they better understand the potential hazards of the area such as fire, boat accident and tsunamis. This results in well preparedness to properly respond to any hazards, which then can minimize the impact to lives and properties of the community. The necessary activities to be undertaken are as followed;

5.1.1 **Preparedness of**

- Shelters/safety zones
- Evacuation routes
- Evacuation signs
- Emergency responding units or evacuation unit
- Tools and equipment such as flashlights, flares, whistles, live-jacket, survival kits
- Etc.

5.1.2 **Early warning systems must include**

- **Monitor of weather forecast and earthquake:** Sources of this information are Thai Meteorological Department, National Disaster Warning Center, Department of Mineral Resources, Civil Defence Volunteer Network and local people. The information assists the concerned bodies in initiating the warning message and coordination.

- **Public address system:** This system can be installed on a tower or electric poles to ensure the information accessibility to all residents in the Island.

- **Tsunami early warning system:** National Disaster Warning Center is in charge of activating tsunami warning signal via satellite to the potential risk areas. When tsunami warning signal is launched, the local sirens become active and warning message is released in five different languages; Thai, English, German, Chinese, and Japanese. In Phi Phi Island, three (3) tsunami warning sirens are installed; two are at Moo 7 in Ban Rim Na and Ao Ton Sai, and one at Moo 8 in Ao Loh Ba Kao. See **ANNEX 4**.
• **Local Radio Network:** “Khon Phi Phi” Radio Station (radio station of the local people in Phi Phi Island) can be established to supplement the existing public address system, by which news and information of all sorts will be disseminated to people on the Island as well as sea area around the island. This radio station will be the hub for all types of telecommunication, such as mobile phone network, VHF radio network. This station would enhance the coordination among ANSAO, contact persons in each zone, and CG members. (NOTE: this system is not yet available)

• **Evacuation signs:** They can direct people to the identified safety zones.

• **The announcement at the end of emergency:** Emergency Notification Team should keep monitoring and exchanging disaster information with related organizations. This team should also update the incident commander and local people so that they are well aware of the situation. When an emergency ends and the incident commander announces the end of the emergency situation, the Emergency Notification Team should ensure that all residents on the Island are informed.

5.1.3 **Plan exercises and drills**

Plan exercise aims to promote awareness and understanding of identified procedures during emergency to local people, tourists, tourism sector, government agencies and private sector. Moreover, it helps to test the warning systems, communication systems, evacuation procedures, resources sufficiency, and readiness of emergency response units. This activity could result in the more proper practices, timely evacuation and above all the review and revision of emergency plan.

5.2 **During Emergency Warning**

When receiving the warning of fire incident or underwater earthquake that could trigger tsunamis from the National Disaster Warning Center or Thai Meteorology Department (TMD) or the announcement from NDWC to evacuate people at risk areas, people in charge evacuate people to the identified shelters. Actions to be undertaken are as follows;

5.2.1 **Preparation of evacuation**

• **Prioritize the evacuees by the order of moving;**
  - Patients
  - People with a handicap
  - Elderly people
  - Children and women
• **Hotel guest listing:** Hotels should have the completed list of guests so that hotel staff knows the correct number of the guests. Hotel guests should also be equipped with necessary safety information such as evacuation procedures and basic emergency tools such as flash lights and other forms of light source.

5.2.2 **Shelters arrangement:** Shelters should be arranged in advance to accommodate evacuees with necessary equipment and facilities.

5.2.3 **Preparation of name list of people to be evacuated of each zone:** This name list together with evacuation routes should be distributed to people in charge.

5.2.4 **Clear identification of people in charge:** This includes contact persons to facilitate and coordinate during the evacuation.

5.2.5 **Public relations on evacuation:** This can be done by distributing evacuation guideline to all residents to ensure their understanding of the situation. People in charge of each zone should also keep exchanging updating news and information with each other.

5.2.6 **Tsunami evacuation procedures:** After the warning siren is activated, local people and tourists in risk areas evacuate after the guidance of contact persons of each zone to the identified shelters as followed;

**Zone 1:** People living within “Areeda Zone” take evacuation routes number 9, 10 and 11 to the shelter “Khao Ling”. (As this shelter is in the mountainous area, it should be re-investigated for its accessibility. Shelter identified for Zone 2 can be considered the alternative.)

**Zone 2:** People living within “Cabana Zone” take evacuation routes number 9, 10 and 11 to “Khao Ling”. They can also evacuate to Phi Phi Island Cabana Hotel in case of emergency.

**Zone 3:** People living within “Ao Loh Dalum Zone” take evacuation routes number 1 and 6 to “Khao Klang”.

**Zone 4:** People living within “Ao Na (Ao Ton Sai Section 1) Zone” take evacuation routes number 2, 5, 6, 7, and 8 to “Khao Klang”. In case of emergency, they can evacuate to Phi Phi Hotel.

**Zone 5:** People living within “Ao Na (Ao Ton Sai Section 2) Zone” take evacuation routes number 6, 7, and 8 to “Khao Klang”.
Zone 6: People living within “Pak Khlong Zone” take evacuation routes number 3 and 6 to “Khao Klang”.

Zone 7: People living within “View Point Zone” take evacuation route number 3 to “Khao Klang”, and route number 4 to Phi Phi Viewpoint Resort.

Zone 8: People living within “Andaman (Koh Don Section 1) Zone” take evacuation route number 8 to “Khao Klang”.

Zone 9: People living within “Andaman (Koh Don Section 2) Zone” take evacuation route behind the Gypsy Village to “Khao Klang”.

Zone 10: People living within “Andaman (Section 3 in Cherng Khao) Zone” take evacuation route number 12 to “Khao Ton Riang”.

5.2.7 Procedures after an emergency: After the ending of disaster is announced by the incident commander, people can re-enter the affected area if the followings procedures have been undertaken;

- The evacuees are informed of “no harm” situation: Person in charge keeps updating evacuees about the situation and informs them the ending of an emergency so that they can be prepared to check their belongings and return to their places.

- Person in charge of each zone properly manages the evacuation: Name list of evacuees and evacuation routes should be rechecked for safety.

5.3 During Emergency

According to the Disaster Prevention and Mitigation Act B.E. 2550, Chief Executive of ANSAO, as the onsite incident commander, sets up a Disaster Prevention and Mitigation Directing Center to monitor the situation, ensure the effective disaster response operations and disseminate the updating situation to people.

6. Incident Command and Resources

6.1 Establishment of the Disaster Prevention and Mitigation Directing Center of Phi Phi Island

This Center is established in order to coordinate operations and to mobilize resources from parties concerned for the purpose of disaster suppression and mitigation. This structure should incorporate various partners, which are;
• Muang District Office based in Phi Phi Island
• ANSAO Office based in Phi Phi Island
• Police officers of Muang Krabi Police Station, Phi Phi Island Branch
• Disaster Prevention and Mitigation Committee of Phi Phi Island
• Designated Contact Persons of the Ten Zones
• Sea Rescue Team
• Fire Fighting Team
• Search and Rescue Team
• Private Sector

6.2 Roles and Responsibilities of the Disaster Prevention and Mitigation Directing Center of Phi Phi Island

To effectively deal with an emergency, this Center has several roles and responsibility as followed;

• Conduct a survey, investigation and risk assessment on a regular basis
• Develop measures for disaster prevention, preparedness by the involvement of local communities and agencies concerned
• Consider and give approval to the local disaster emergency management plan
• Monitor potential disaster situation
• Initiate disaster preventive activities with the cooperation from agencies and partners concerned
• Establish connection with related authorities at local, district and provincial level and share disaster information among each other

6.3 Component of the Disaster Prevention and Mitigation Directing Center of Phi Phi Island

6.3.1 Emergency Notification and Communication Unit

• Monitor disaster situation and related news and information on weather condition
• Notify emergency occurrences together with evacuation guideline to all residents
• Act as the focal point of emergency communication

6.3.2 Emergency Response and Search and Rescue Unit

• Conduct trainings on disaster preparedness for local communities to raise awareness and promote proper behavior before, during and after disaster
• Procure all necessary tools and equipment for emergency response and conduct drills
• Conduct search and rescue operations with the participation of local people
• Provide basic first aid to victims and transfer them to the hospital
6.3.3 Evacuation and relief Unit

- Work closely with Emergency Notification and Communication Unit
- Evacuate people to the identified safety zones
- Provide immediate relief especially food and drinking water to victims
- Seek donations for consumer goods and distribute them to the victims
- Re-evacuate people to their places when an emergency ends

6.3.4 Medical care Unit

- Provide medical care to people in need
- Rehabilitate mental health and livelihood of victims
- Screen victims and transfer them to receive additional/extra treatment at the provincial hospital

6.3.5 Security Unit

- Ensure safety to victims’ houses and properties
- Facilitate traffic flow during an evacuation
- Barricade the effected areas to prevent local people from any harmful situation
- Facilitate the operations of Emergency Response and Search and Rescue Unit

6.4 Resources for emergency response

All necessary resources and equipment for emergency monitoring and responding can be supported by local community, tourism sector and ANSAO. These items should be checked regularly for their functionality. See ANNEX 5.

7. Communications

Communication systems must be timely, convenient, integrated, effective and compatible to different network. Communication system for Phi Phi Island can be mobile phone network, public address system, warning towers, community radio network, VHF radio network and Volunteer Radio Network (VR). These networks can facilitate the information sharing and operations during disaster. Contact persons of the Ten Zones can be reached via mobile phone network as described in ANNEX 6.

Additionally, private sector particularly hotel entrepreneurs in Phi Phi Island have set up their own radio network for business purpose. In view of this advantage, this radio network is also used for emergency management purpose. In case of an emergency, Emergency Notification and Communication Teams, based at Electricity Plant 1 and 2 can be reached around the clock at their
radio channel 33 or land line telephone at 075 601097. Channel 33 of the radio network also serves as the communication center for all operating teams of Phi Phi Island. See ANNEX 7.1 and 7.2

According to the Disaster Prevention and Mitigation Act B.E.2550, Chief Executive of ANSAO is designated as the local incident commander who can use this communication network to control and supervise emergency response operations. In case of the situation overwhelming the local authority, Chief executive of ANSAO can make a request for additional support and assistance to Muang District Chief Officer, as the commander at district level and to Krabi Governor, as the commander at provincial level, respectively.

To communicate disaster situation or other administrative issues from Phi Phi Island to Krabi mainland where Head Office of ANSAO is located, communication network and contact details have been identified. See ANNEX 8.

8. Operation Guideline

8.1 Guideline for emergency preparedness

To be properly prepared for emergency and disaster response, operating teams of the Disaster prevention and Mitigation Directing Center of Phi Phi Island have to practice the following guidelines;

- **Before emergency:** Operational plan, manpower, tools and equipment, emergency notification and monitoring procedures, plan exercise schedule should be identified and agreed upon players concerned.

- **During emergency:** Procedures for evacuation, emergency response, and search and rescue should be set up before hand

- **After emergency:** Victim relief center, victim search and rescue, damage assessment, basic medical care provision and other related procedure of operation for each responsible team should be also clarified. See ANNEX 9.

8.2 Structure of Operating Body

Since Phi Phi Island does not have the officially mandated operating body for disaster prevention and mitigation, it is necessary to set up a volunteer mechanism based on the approach of Community-Based Disaster Risk Management (CBDRM). So, this volunteer operating body comprises volunteers and members of Coordinating Group (CG). Its structure includes;

- **Disaster Prevention and Mitigation Committee of Phi Phi island,** responsible for executing disaster emergency management efforts with support and supervision of ANSAO. The Committee is composed of;
• Director of Disaster Prevention and Mitigation Directing Center of Phi Phi Island
• Emergency Notification and Communication Unit
• Emergency Response and Search and Rescue Unit
• Evacuation and Relief Unit
• Medical Care Unit
• Security Unit

See ANNEX 10

• **Operating Teams** are responsible for implementing all tasks as assigned. The operating teams include;

  • Emergency Notification and Communication Team
  • Emergency Response and Search and Rescue Team 1 (Based at Electricity Plant 1)
  • Emergency Response and Search and Rescue Team 2 (Based at Electricity Plant 2)
  • Evacuation and Relief Team
  • Medical Care Team
  • Security Team

See ANNEX 11

9. Testing and Revision of Emergency Disaster Management Plan

9.1 Plan Communication

Plan communication is a process of meetings aiming to introduce the procedures, roles and responsibilities of key players and resources to stakeholders so as to promote better understanding of the plan among them.

9.2 Plan Testing

Plan testing is one of the important steps of disaster management. Plan exercises and drills are a tool to verify and ensure the up-to-date and applicability of the plan. This tool helps the operating units better understand their roles and responsibilities, status of tools and equipment, incident command system, communication system, coordination procedures and drills evaluation process. Plan testing has three main steps, which are;

• **Command Post Exercise (CPX)** is conducted on table top to practice decision making, questions answering, coordination with related partners and exchanging information on the plan so that the plan can be better adjusted prior to the drill.

• **Field Training Exercise (FTX)** is conducted using a simulation scenario so that all concerned players are able to practice their assigned
operating, commanding, coordinating, and communicating tasks. During the exercise, assigned observers take notes of all activities undertaken and time spent in each task.

- **Plan exercise and drill evaluation** is organized after the FTX in order to acquire comments on good and bad points from observers and participating teams.

### 9.3 Schedule for plan exercises and drills

Plan exercise and drills should be conducted in accordance with the local disaster calendar. The local authorities should identify the schedule for plan exercise and drill. Regular practice is advisable.

- **Command Post Exercise (CPX)** should be conducted every three months so that all concerned parties are encouraged to revisit the plan, their coordination procedures and how to improve the plan.

- **Field Training Exercise (FTX)** should be conducted at least once a year so that parties concerned get accustomed to an emergency situation as well as refreshen their plan understandings. This also can result in plan revision.

### 9.4 Plan Revision

To guarantee the effective disaster emergency management efforts, plan should be revised and improved to better correspond to current situation. Plan revision can be organized in a form of committee and stakeholders’ annual meeting during August to September, which is the period of tourism low season. All suggestions emerged during the meeting should be relevant to the plan. ANSAO is the only organization that has mandate to get the plan revised.

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Mr. Phunkam Kittithornkul  
Chief Executive  
Ao-Nang Sub-District Administrative Organization
ANNEX

ANNEX 1: Risk Area Zoning (10 Zones)
ANNEX 2:  Evacuation Routes (12 Routes)
ANNEX 3: Shelters
ANNEX 4: Emergency Warning Towers
### ANNEX 5: Existing Resources for Emergency Management in Phi Phi Island

<table>
<thead>
<tr>
<th>Locations</th>
<th>Human Resources</th>
<th>Tools/Equipment</th>
<th>Contact persons</th>
<th>Tel.</th>
</tr>
</thead>
</table>
| Ban Koh Phi Phi School      | 15 persons in total | 1. Dry Chemical Fire Extinguishers (2)  
2. Live jackets (40)  
3. VHF Radio (6)  
4. Alarm sets in building | 1. Mr. Weerawat Chaoaew  
2. Mr. Utsadawut Naksuk  
3. Mrs. Sujitra Mamat | 08-1414-0730  
08-9195-3411  
08-7283-5618  
08-9390-9804 |
| Koh Phi Phi Hospital        | 4 persons        | 1. Dry Chemical Fire Extinguishers (4)  
2. VHF 154.925 MHz Radio (Krabi-Phuket) | 1. Mr. Sutas Meteekul, Med. | 08-1533-0990 |
| Phi Phi Hotel               | 13 persons       | 1. Dry Chemical Fire Extinguishers (113) | 1. Mr. Werapas Jantaro  
2. Mr. Preecha Tepnoo | 08-1978-9635 |
| Phi Phi Princess Hotel      | 15 persons       | 1. Dry Chemical Fire Extinguishers (30)  
2. VHF Radio (15) | 1. Mrs. Samran Wiriya  
2. Mrs. Uthumporn Keemnairee  
3. Mrs. Chonchinat Takdamuk | 08-1873-5689  
08-1891-4053  
08-3180-2653 |
| Phi Phi Island Cabana Hotel | 30 persons       | 1. Dry Chemical Fire Extinguishers (70)  
2. Live jackets (300)  
3. VHF Radio (24)  
4. Alarm sets in building | 1. Mr. Prasong Puangroy  
2. Mr. Arunothai Kaewkangwan | 08-1797-0653  
08-7277-2335 |
| KohPhi Phi Electricity Plant | 15 persons       | 1. Dry Chemical Fire Extinguishers (9)  
2. Clean Agent Fire Extinguisher (4)  
3. Halon 1221 (BCF) Fire Extinguisher (2)  
4. Honda Fire Engine with HP 5.5 (1)  
5. Suction Hose with 3 inch., 6 m. (1)  
6. Fire Hose with 1.5 in., 20 m. (20)  
7. Adjustable Fire Nozzle (1)  
8. 3-Dividing Breeching (1)  
9. Portable fire engine (1)  
10. Suction Hose with 3 in., 6 m. (1)  
11. Fire Hose, 34 mm. 20 m. (2) | 1. Mr. Prakorsak Pradithcharoen  
2. Mr. Parinya Chaipakdee  
3. Mr. Nikorn Chaipakdee | 08-1797-1773  
08-1894-0345  
Not available  
Belongs to community |

**1st Unit of Fire engines**

- 1. Dry Chemical Fire Extinguishers (9)  
2. Clean Agent Fire Extinguisher (4)  
3. Halon 1221 (BCF) Fire Extinguisher (2)  
4. Honda Fire Engine with HP 5.5 (1)  
5. Suction Hose with 3 inch., 6 m. (1)  
6. Fire Hose with 1.5 in., 20 m. (20)  
7. Adjustable Fire Nozzle (1)  
8. 3-Dividing Breeching (1)  
9. Portable fire engine (1)  
10. Suction Hose with 3 in., 6 m. (1)  
11. Fire Hose, 34 mm. 20 m. (2)

**2nd Unit of Fire engines**

- Not available  
-Belonged to community
<table>
<thead>
<tr>
<th>Locations</th>
<th>Human Resources</th>
<th>Tools/Equipment</th>
<th>Contact persons</th>
<th>Tel.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Koh Phi Phi Electricity Plant 2</td>
<td>15 persons</td>
<td>12. Fire Hose, 1.5 in., 20 m. (1)</td>
<td>1. Mr. Prakorbsak Praditcharoen</td>
<td>08-1797-1773</td>
</tr>
<tr>
<td>Zone 8: Andaman (Koh Don Section 1)</td>
<td></td>
<td>13. Adjustable Fire Nozzle (1)</td>
<td>2. Mr. Parinya Chaipakdee</td>
<td>08-1894-0345</td>
</tr>
<tr>
<td></td>
<td>3rd Unit of Fire engines</td>
<td>1. Clean Agent Fire Extinguisher (11)</td>
<td>3. Mr. Nikorn Chaipakdee</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. Halon 1221 (BCF) Fire Extinguisher (2)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. Honda Fire Engine with HP 5.5 (1)</td>
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<td></td>
<td>4. Suction Hose with 3 inch., 13 m. (1)</td>
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<td></td>
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<td>5. Fire Hose with 1.5 in., 20 m. (10)</td>
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<td>6. Adjustable Fire Nozzle (1)</td>
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<td></td>
<td></td>
<td>7. Fire Ball (1)</td>
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<tr>
<td>Chao Koh Bungalow</td>
<td>18 persons</td>
<td>1. Dry Chemical Fire Extinguishers (38)</td>
<td>1. Mr. Suwat Noophong</td>
<td>08-9755-4537</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. Live jackets (4)</td>
<td>2. Ms. Penphan Suriyakoi</td>
<td>08-3882-8912</td>
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<td></td>
<td></td>
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<td>3. Mr. Nikorn Tuak-oan</td>
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<td>4. Mr. Suchon Rempan</td>
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<tr>
<td>Phitharom Hotel</td>
<td>25 persons</td>
<td>1. Dry Chemical Fire Extinguishers (104)</td>
<td>1. Mr. Yongyut Ungrattankorn</td>
<td>08-1693-5408</td>
</tr>
<tr>
<td>ANSAO</td>
<td></td>
<td>1. Portable Fire Engines with equipment (2) (stationed at Koh Phi Phi Electricity Plant)</td>
<td>1. Mr. Prakorbsak Praditcharoen</td>
<td>08-1797-1773</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2. Mr. Parinya Chaipakdee</td>
<td>08-1894-0345</td>
</tr>
</tbody>
</table>
**ANNEX 6:  Contact Persons in each zone**

<table>
<thead>
<tr>
<th>Zone No.</th>
<th>Zone Name</th>
<th>Contact Person</th>
<th>Contact Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Areeda</td>
<td>1. Mr. Sa-Ngd Prabdin</td>
<td>081-894-1750</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. Mr. Kasem Ngankhang</td>
<td>087-269-5879</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. Mr. Adul Bunsop</td>
<td>081-894-7269</td>
</tr>
<tr>
<td>2</td>
<td>Cabana</td>
<td>1. Mrs. Chanida Intaratas</td>
<td>081-979-5224</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. Mr. Prasong Puangroi</td>
<td>081-797-0653</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. Mr. Chamnan Phorangsi</td>
<td>085-888-4820</td>
</tr>
<tr>
<td>3</td>
<td>Ao Loh Dalum</td>
<td>1. Ms. Samran Wiriya</td>
<td>081-873-5689</td>
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<tr>
<td></td>
<td></td>
<td>2. Mrs. Pleumjai Panchan</td>
<td>083-502-1426</td>
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<td></td>
<td></td>
<td>3. Ms. Wanna Poranathong</td>
<td>089-060-0191</td>
</tr>
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<td>4</td>
<td>Ao Na</td>
<td>1. Mr. Wepad Janaro</td>
<td>081-978-9635</td>
</tr>
<tr>
<td></td>
<td>(Ao Ton Sai Section 1)</td>
<td>2. Mr. Manop Kongkhaorib</td>
<td>081-086-9142</td>
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<tr>
<td></td>
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<td>3. Mr. Preecha Thepnu</td>
<td>081-597-3860</td>
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<tr>
<td>5</td>
<td>Ao Na</td>
<td>1. Mr. Sommai Jantin</td>
<td>081-968-0049</td>
</tr>
<tr>
<td></td>
<td>(Ao Ton Sai Section 2)</td>
<td>2. Mr. Suwat Nuphong</td>
<td>089-755-4537</td>
</tr>
<tr>
<td></td>
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<td>3. Mr. Worawut Boonkaewsri</td>
<td>081-878-8744</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4. Mr. Yuttana Thaipradit</td>
<td>086-273-1879</td>
</tr>
<tr>
<td>6</td>
<td>Pak Khlong</td>
<td>1. Mr. Kornee Kongkhaorieb</td>
<td>089-871-1209</td>
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<tr>
<td></td>
<td></td>
<td>2. Mr. Prapas Puangnun</td>
<td>089-050-5026</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. Mr. Suwan Channina</td>
<td>081-788-3222</td>
</tr>
<tr>
<td>7</td>
<td>Viewpoint</td>
<td>1. Mr. Yongyut Ungrattankorn</td>
<td>081-693-5408</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. Ms. Pimreudee Chaovanakawee</td>
<td>084-134-6802</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. Ms. Puangkaew Uksornawas</td>
<td>081-894-9204</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4. Mr. Chalermrat Kladwut</td>
<td>086-553-2316</td>
</tr>
<tr>
<td>8</td>
<td>Andaman</td>
<td>1. Mr. Sommitren Munkhong</td>
<td>089-213-3134</td>
</tr>
<tr>
<td></td>
<td>(Koh Don Section 1)</td>
<td>2. Mr. Sutham Theerapan</td>
<td>081-894-0876</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. Mr. Parinya Chaipakdi</td>
<td>081-394-0345</td>
</tr>
<tr>
<td>9</td>
<td>Andaman</td>
<td>1. Mr. Somporn Duangjul</td>
<td>084-626-9612</td>
</tr>
<tr>
<td></td>
<td>(Koh Don Section 2)</td>
<td>2. Mr. Uthai Yeunsuk</td>
<td>086-271-9961</td>
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<td>10</td>
<td>Andaman</td>
<td>1. Mr. Werawat Chaokaew</td>
<td>081-415-0730</td>
</tr>
<tr>
<td></td>
<td>(Section 3, Cherng Khao)</td>
<td>2. Mr. Chaiyasit Chaisumritphol</td>
<td>081-398-8722</td>
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<td></td>
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<td>3. Mr. Chainarong Longta</td>
<td></td>
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</tbody>
</table>
## ANNEX 7: Communication System of Phi Phi Island

### 7.1 Radio Network

<table>
<thead>
<tr>
<th>Radio Network Holder/ Tel. Number</th>
<th>Channel</th>
<th>Frequencies</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phi Phi Don Chukit Resort Tel. 075-601-259</td>
<td>02</td>
<td>245.012</td>
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<tr>
<td>Chao Koh Phi Phi Lodge Bungkalow Tel. 075-601-083-4</td>
<td>12</td>
<td>245.137</td>
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<tr>
<td>PP Rim Le Resort Tel. 075-601-104</td>
<td>12</td>
<td>245.137</td>
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<tr>
<td>Phi Phi Island Cabana Hotel Tel. 075-601-170-7</td>
<td>34</td>
<td>173.8200</td>
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<tr>
<td>Electricity Plant 1 Tel. 075-601-097</td>
<td>33</td>
<td>245.400 (1st Fire Fighting Unit)</td>
</tr>
<tr>
<td>Electricity Plant 2 Tel. 075-601-095-6, 075-601-169</td>
<td>33</td>
<td>245.400 (2nd Fire Fighting Unit)</td>
</tr>
<tr>
<td>Princess Resort and Spa Tel. 075-601-166-9</td>
<td>50</td>
<td>245.612</td>
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<tr>
<td>Andaman Beach Resort Tel. 075-601-166-9</td>
<td>23</td>
<td>245.275 (Technical Section)</td>
</tr>
<tr>
<td></td>
<td>72</td>
<td>245.887 (Office Section)</td>
</tr>
<tr>
<td>Phitharom Hotel Tel. 075-601-121-2</td>
<td>66</td>
<td>245.812</td>
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<tr>
<td>View Point Hotel Tel.</td>
<td>79</td>
<td>245.75</td>
</tr>
<tr>
<td>Andaman Villa Resort Tel. 075-601-100</td>
<td>80</td>
<td>245.987</td>
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</tbody>
</table>

**Note:** The 1st and 2nd Fire Fighting Units are on 24 hour stand-by at channel 33.
7.2 Emergency Communication Network

**Affected Area**

- **Sea Rescue Team**
  (Call sign: Sea Rescue)
  081-894-1750

- **Evacuation and Relief Team**
  (Call sign: Evacuation PP)

- **Security Team**
  (Call sign: Security PP)

- **Medical Care Team**
  (Call sign: Payaban PP)

- **Police Station**
  (Phi Phi Island Branch)
  (Call sign: Police PP)

- **ANSAO**
  (Phi Phi Island)
  (Call sign: Or Bor Tor PP)

- **Emergency Response and SAR Team 1-3, (Electricity Plants)**
  (Call sign: Response PP 1, 2, 3)

- **District Office**
  (Phi Phi Island)
  (Call sign: Ampur PP)

**Radio Telephone**

**Channel 33**
(245.400)

**Chief Executive of ANSAO**
Local Director (Incident Commander)
075-637146
ANNEX 8: Coordination and Communication System of ANSAO

Structure of Operation Coordination for Disaster Emergency Management

Krabi Governor
Provincial Director
Disaster Prevention and Mitigation Directing Center

Muang District Chief Officer
District Director

Chief Executive of ANSAO
Local Director
Evacuation and Relief Unit

Medical Care Unit

Emergency Notification and Communication Unit

Emergency Response and Search and Rescue Unit

Security Unit

Communication Network for Tsunami

Muang District Police Station
Call 191
VHF 152.550

Krabi City Hall
“Vihok 1”
VHF 162.125

Local Authorities in Krabi

ANSAO
VHF 162.600

Muang District
“Pirab”
VHF 162.125

Krabi Hospital

Public Health Provincial Office
Krabi Province

Disaster Prevention and Mitigation Provincial Office
Krabi Province
## ANNEX 9: Operation Guideline

<table>
<thead>
<tr>
<th>Disaster Phase</th>
<th>Roles</th>
<th>Unit in charge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Before Emergency</td>
<td>1. Procure disaster warning tools and equipment such as Manual siren, rain gauge, radio communication</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2. Survey evacuation routes and shelters</td>
<td>- Emergency Response and SAR Unit</td>
</tr>
<tr>
<td></td>
<td>3. Disseminate disaster information to and educate people on disaster management</td>
<td>- Evacuation and Relief Unit</td>
</tr>
<tr>
<td></td>
<td>4. Monitor potential incident</td>
<td>- Emergency Notification and Communication</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1. Preparing evacuation</td>
<td>- Evacuation and Relief Unit</td>
</tr>
<tr>
<td></td>
<td>1.1 Assembling people</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1.2 Identifying meeting points for evacuation</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1.3 Assigning a person or more to control the evacuation</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1.4 Informing people the evacuation</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1.5 Preparing shelters</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2. Evacuating to shelters</td>
<td>- Emergency Response and SAR Unit</td>
</tr>
<tr>
<td></td>
<td>2.1 Evacuation management</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2.2 Checking number of evacuees</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2.3 Ensuring the safety and security of shelters</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2.4 Providing medical care to victims</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3. Conducting search and rescue operations</td>
<td>- Emergency Response and SAR Unit</td>
</tr>
<tr>
<td>After Emergency</td>
<td>1. Setting up Victim Relief Center</td>
<td>- Evacuation and Relief Unit</td>
</tr>
<tr>
<td></td>
<td>2. Conducting search and rescue operations</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3. Checking the number of missing people and casualties</td>
<td>- Evacuation and Relief Unit</td>
</tr>
<tr>
<td></td>
<td>4. Escorting people to their homes</td>
<td></td>
</tr>
<tr>
<td></td>
<td>5. Initiating the damage assessment on houses, properties, employment</td>
<td>- Evacuation and Relief Unit</td>
</tr>
<tr>
<td></td>
<td>6. Conducting the damage assessment on infrastructure such as roads, bridges, dikes</td>
<td>- Disaster Prevention and Mitigation Directing Center</td>
</tr>
</tbody>
</table>
ANNEX 10: Disaster Prevention and Mitigation Committee of Phi Phi Island

Local Director

1. Chief Executive of ANSAO
2. Deputy Chief Executive of ANSAO

Emergency Notification and Communication Unit

1. Mr. Kittichai Praditcharoen  Tel: 08-1894-4304
2. Mr. Chaiyasit Chaisumrittipol  Tel: 08-1398-8722
3. Mr. Sombat Tongkerd  Tel: 08-4443-9498
4. Mr. Yongyut Sutin  Tel: 08-4270-4412, 08-9824-8842
5. Mr. Nikorn Chaipakdi  Tel: 08-7277-9385
6. Mr. Manop Kongkhaorieb  Tel: 08-1086-9142
7. Mr. Wisut Nupan  Tel: 08-1894-0833

Emergency Response and Search and Rescue Unit

1. Mr. Prakobsak Praditcharoen  Tel: 08-1894-0345
2. Mr. Parinya Chaipakdi  Tel: 08-1894-0345
3. Mr. Uthane Saiting  Tel: 08-1536-2895
4. Mr. Chamnan Photirangsi  Tel: 08-5888-4782
5. Mr. Sommitre Munkong  Tel:
6. Mr. Sompian Motham  Tel:
7. Mr. Uthai Yeunsuk  Tel: 08-6271-9961

Evacuation and Relief Unit

1. Mr. Werapas Juntaro  Tel: 08-1978-9635
2. Mr. Sommai Juntin  Tel: 08-1968-0049
3. Mr. Prasong Puangroi  Tel: 08-1797-0653
4. Ms. Samran Wiriyap  Tel: 08-1873-5689
5. Mr. Werawut Chaokaew  Tel: 08-1414-0730
6. Mr. Suwat Nupong  Tel: 08-9755-4537
7. Mrs. Pleumjai Panjun  Tel: 08-3502-1426
8. Mr. Niwat Bunsop  Tel:

Medical Care Unit

1. Director of Koh Phi Phi Hospital  Tel:
2. Ms. Puangkaew Uksornsawas  Tel: 08-1894-9204
3. Ms. Pimreudi Chaovanakawi  Tel: 08-4134-6802
4. Ms. Nareumon Vanitchanon  Tel: 08-9689-8742
5. Mr. Werawut Mamat  Tel:
6. Mr. Warapong Yensanit  Tel:
7. Mrs. Nipa Jiamton  Tel:
**Security Unit**

   Tel: 08-1894-2306
2. Mr. Wuttisak Tongkerd  
   Tel: 08-1702-2347
3. Mr. Narong Wangpech  
   Tel: 08-1894-1750
4. Mr. Sangad Prabdin  
   Tel: 08-9871-1209
5. Mr. Korni Kongkhaorieb  
   Tel: 08-1878-8744
6. Mr. Worawut Bunkaewsri  
   Tel: 
7. Mr. Pinit Chamroen  
   Tel: 

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ANNEX 11: Operating Team of the Disaster Prevention and Mitigation Directing Center of Phi Phi Island

1. Medical Care Team 1

Mr. Sornpracha Somuangsae Tel: 08-5432-8002  
Ms. Rungravee Mee-Ngam Tel: 08-5783-3056  
Mr. Sathaporn Kaewsri Tel: 08-4186-1811  
Mr. Nattawat Yirun Tel: 08-3191-1407  
Mr. Pairach Khamjeebsi Tel: 08-0690-7756

2. Medical Care Team 2

Ms. Nareumon Vanitchanon Tel: 08-9689-8742  
Ms. Panni Maneeproy Tel: 08-7272-0139  
Mr. Witsanu Dangsawas Tel: 08-6815-5987  
Mr. Uttapol Decha Tel: 08-7473-5363  
Mr. Nitas Jemart Tel: 08-4731-4561

3. Search and Rescue Team

Mr. Preecha Manopat Tel: 08-4629-2340  
Mr. Sorosak Mungfangklang Tel: 08-7714-9719  
Mr. Teh Poesom Tel: 08-9819-2569  
Mr. Somyot Chaikhaotong Tel: 08-7621-9116  
Mr. Surachai Muangkrajang Tel: 08-3396-3632  
Mr. Kittiphan Younglung Tel:

4. Evacuation and Relief Team

Mr. Sittichai Sukri Tel: 08-4189-0509  
Ms. Tiyani Srimongkol Tel: 08-7272-0539  
Mr. Somporn Toma Tel: 08-9295-1363  
Mr. Nopporn Jemart Tel: 08-5797-4780  
Mr. Ekkachai Tunsakul Tel: 08-5784-5221

5. Fire Fighting Team 1

Mr. Parinya Chaipakdi Tel: 08-1794-0345  
Mr. Samruam Kladphut Tel: 08-4848-8021  
Mr. Sorat Duangdi Tel: 08-9728-8147  
Mr. Denchai Somjit Tel: 08-3388-9387  
Mr. Kittipong Younglung Tel:  
Mr. Witsanu Noi Tel: 08-4093-7188  
Mr. Panurak Phunmisri Tel: 08-7419-2967
6. Fire Fighting Team 2

Mr. Somporn Duangjul  Tel: 08-4626-9612
Lt. Sanit Buakaew  Tel: 08-7275-7985
Mr. Ekkachai Sodsuk  Tel: 08-7279-9075
Mr. Phuttarak Prachankal  Tel: 08-6541-6071
Mr. Chamnan Phorangsi  Tel: 08-5888-4782
Mr. Arnon Ngoentong  Tel: 08-3812-9664
Mr. Apichart Raiyai  Tel: 08-4441-2594

7. Sea Rescue Team

Mr. Sa-Ngad Prabdin  Tel: 08-1894-1750
Mr. Sommitre Munkong  Tel: 08-9213-3134
Mr. Kasem Ngankang  Tel: 08-7269-5897

8. Emergency Notification and Communication Team

Mr. Kitichai Praditcharoen  Tel: 08-1894-4304
Mr. Uthane Saiting  Tel: 08-1536-2895
Mr. Nokorn Chaipakdi  Tel: 08-7277-9385

9. Security Team

Mr. Surapong Sodsuk  Tel: 08-7464-5370
Mr. Somyot Bunsom  Tel: 08-0697-3423
Mr. Worapol Tongkerd  Tel: 08-9972-1920
Mr. Suriyun Tongkerd  Tel:
Mr. Somneuk Chudech  Tel:
Mr. Prasan Mohkit  Tel: 08-1539-4953
Mr. Somkiet Kaewprasong  Tel: