



**Northeast Route (In-Out bound)** starts from Bangkok Bus Terminal (Chatuchak) – Sri Ratch Express Way – Ram In Tra Express Way – Lam Luk Ka District, Pathum Thani Province – Nakhon Nayok Province – Ban Na District of Nakhon Nayok Province – Hin Kong District of Saraburi Province – Nakhon Nayok Province – Mittrapap Road – Take regular roads.

**Northern Routes (In-Out bound)** starts from Bangkok Bus Terminal (Chatuchak) and takes regular roads.

For more information, contact 24 Hr-Hotline 1490.

#### 1.4 Important Assistance Provision

##### 1.4.1 The Military mobilized a wide range of resources to the flood affected areas, including;

**The Royal Thai Armed Force:** support manpower and heavy equipment to assist people in disaster affected areas. They also are ordered to safeguard and repair the embankments at the areas. The RTAF provided transportation for people in several areas, including Chacheongsao Province, Nakhon Pathom Province and BMA (Chatuchak, Ladprao, Bangken, and Sai Mai Districts). They also assisted in pushing water in many important canals such as The Lad Krabang, The Prawes Burirom, The Phra Ong Chao Chaiyanuchid, The Udomchonlajon, The Nakhon Nueangket, The Premprachakorn, the Bangken, and The Bang Bua.

**The Royal Thai Army:** dispatched a cadre of manpower and heavy equipment for land, marine and air operation, together with 15 specialist mobile units for medical and mental health care to the affected areas in Nonthaburi Province (District of Bang Kruay, Bang Bua Tong, Sai Noi, Muang, Pakkred, and Bang Yai). They also provided transportation for the public in 51 routes.

**The Royal Thai Navy:** dispatched officers and heavy equipment for water operation to help people affected by flooding. They also pushed out water from major rivers and canals around BMA. The RTN provided transportation for the public in 10 routes in Bangkok, Nonthaburi and Nakhon Prathom Province. Together with BMA, the RTN and volunteers helped to clean the debris at Bang Phlad District of BMA.

**The Royal Thai Air Force:** dispatched officers and aircrafts as well as boats to help the flood victims in BMA, Pathumthani, and Nonthaburi Province. They assisted in pumping out water in the inundated areas. They also provide transportation for the public in many areas and secure the flood walls.

##### 1.4.2 Ministry of Interior

**Department of Disaster Prevention and Mitigation** provided water distributor unit to Sai Noi District of Nonthaburi Province and dispatched Emergency Response Team (ERT) together with DDPM officials (33 people) to secure the sand bag loading area at all time. They also assigned officers to monitor and make an inventory for check-in/out of donation items at DDPM, Bangkok.

**The Department of Provincial Administration** received 16,530 petitions from 17 provinces and 16,499 of which have already been solved since 9 October to 20 November 2011. They also dispatched a cadre of the Territorial Defence Volunteers from the non-flood affected province to help flood victims in 6 provinces, 44 districts, and

assisted FROC's activities.

#### 1.4.3 Ministry of Natural Resources and Environment

Department of Water Resources (DWR) provided 2,681,217 Dasta Balls and 201,952 bottles of liquid EM to the public. They can pump out water mainly at the west side of Tha Chine River and some part of east side at the amount of 677,174 cubic meters on Nov 20, 2011, altogether 12,967,915 m<sup>3</sup> of flood water since 20 Oct. – 21 Nov. 2011 with the supported 153 water pumps from Ministry of Interior. They also installed water purification distributors near Thaweewattana Canal, Department of Water Resources, Kajok Ngao Foundation, Klongprem Central Prison Stadium and National Cancer Institute, 36,255 people received 182,790 liters of drinking water.

1.4.4 Ministry of Public Health dispatched 13 medical care mobile units (92 officers) to visit flood affected victims in 9 routes of BMA namely; Lak Si, Nong Jok, Sai Mai, Klong Sam Wa, Meenburi, Chatuchak, Pasichareon and Taweewattana District.

## 2. SITUATION ASSESSMENT/FORECAST

2.1 **Thai Meteorological Department (TMD):** During 20 - 26 Nov 2011, the intense high pressure area from China covered Thailand. The rain in the first phase and drop of temperature at 3-5 degree can be expected on Nov 20, 2011. The Northeast monsoon winds covered the South and the Gulf of Thailand become stronger. Wind waves with 2-3 meters high can be expected.

2.2 **Royal Irrigation Department (RID):**

- Water situation in major basins:

- **The North Basins (Ping, Yom and Nan basin):** Water level in most areas is below the river bank, the water level is likely to decrease.
- **The Central Basins (Thachine and Chao Phraya basin):** Water level in the river at Nakhon Sawan, Chainat, and Ang Thong Province are below river bank. But water level is still higher than the river bank in some districts of Phra Nakhon Si Ayutthaya (Phra Nakhon Si Ayutthaya District and Bang Sai District), Suphanburi (Song Phi Nong District) and Nakhonpathom Province (Banglen and Nakhonchaisi District). However, the water level in the basins is likely to decrease.
- **Chulalongkorn Watergate, Pathum Thani Province** the water level at Chao Phraya River side is decreasing at 1.02 m. below river bank and of Rangsit Prayulsak canal at 1.21 m. below river bank. They are likely to decrease.
- **The Northeastern Basins (Mun and Chi basin):** River overflow is reported in many areas, but likely to decrease.

- Capacity of water pumping and draining of the Lower Chao Phraya Basin:

- **Total amount of water pumping and draining:** 111.38 m<sup>3</sup>/day in which the eastern side of the river can pump water out at 44.07 m<sup>3</sup>/day and 67.31 m<sup>3</sup>/day of the western side of the river.
- **Capacity of water pumping:** Total amount is 45.09 m<sup>3</sup>/day, in which the eastern side of the river can pump water out at 30.10 m<sup>3</sup>/day and 14.99 m<sup>3</sup>/day of the western side of the river.
- **Capacity of water draining:** Total amount is 66.29 m<sup>3</sup>/day. The eastern side of the river can drain 13.97 m<sup>3</sup>/day

and 52.32 m<sup>3</sup>/day at the western side of the river.

- **The capacity of Major Dams:**

- **Bhumibol Dam:** it reached 99.0 Percent of retention capacity. 18 million cubic meters received, 23 million cubic meters discharged. The additional retention is 124 million cubic meters.
- **Sirikit Dam:** it reached 99 Percent of retention capacity. 12 million cubic meters received, 11 million cubic meters discharged. The additional retention is 59 million cubic meters.
- **Kwae Noi Dam:** it reached 99 Percent of retention capacity. 0.81 million cubic meters received, 0.86 million cubic meters discharged.
- **Pasak Dam:** it reached 128 Percent of retention capacity. 2.37 million cubic meters received, 1.8 million cubic meters discharged.

2.3 **Bangkok Metropolitan Administrative (BMA)** On 20 November, the highest water level in Chao Phraya River at Pak Khlong Talad Station was 2.12 meters at 01.53 p.m. The following are overall canals water situation of BMA:

- **Western Side of BMA** the overflow at Nam Keaw at Ratchada Road, Premprachakorn Canal at Tawasunthorn. Water level is decreasing at Don Muang and Lower Hok Wa Canal at Song Canal around 3 c.m.
- **Eastern Side of BMA** (Thonburi Area), the overflow towards many areas namely; Mahasawas Canal at Bhuttamonton Sai 2 Road, Bang Prom Canal at Kanchanapisek Road and Bhuttamonton Sai 3 Road, Bang Cheuk Nung at Bhuttamonton Sai 2 Road, Bang Wag at Bhuttamonton Sai 1 Road and Taweewatana Canal. Water level is decreasing 3 c.m. at Taweewattana Watergate.

For more information, contact BMA's EOC at 0-2248-5115 or 24-hr hotline 1555 or visit BMA website at [www.bangkok.go.th](http://www.bangkok.go.th).

2.4 **Hydrographic Department of the Royal Thai Navy:** On 21 Nov 2011, high-low tide of the sea can be expected at 07.08 a.m. for the lowest at 1.29 m. and the highest at 01.53 p.m. at 2.12 m.