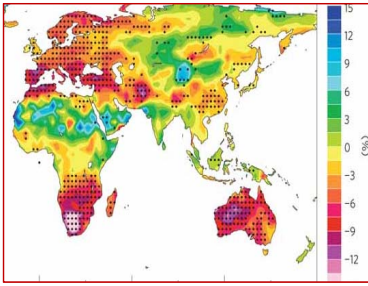


# 附件 4





**International Conference on  
“Challenges of Water &  
Environmental Management  
in Monsoon Asia”**

**TECHNICAL TOURS  
PAWEES 2012**

**29 November 2012**

**Thailand**



## TOURS DESCRIPTION

**Thursday, November 29, 2012**

**USD 50 per person** (including pick up and return to the Conference Center, Tour materials, Lunch, Visit fee in Bang Pa- In Royal Palace)

**Meeting point:**

Xujati Kambhu Convention Hall, Royal Irrigation Department (Pakkred)

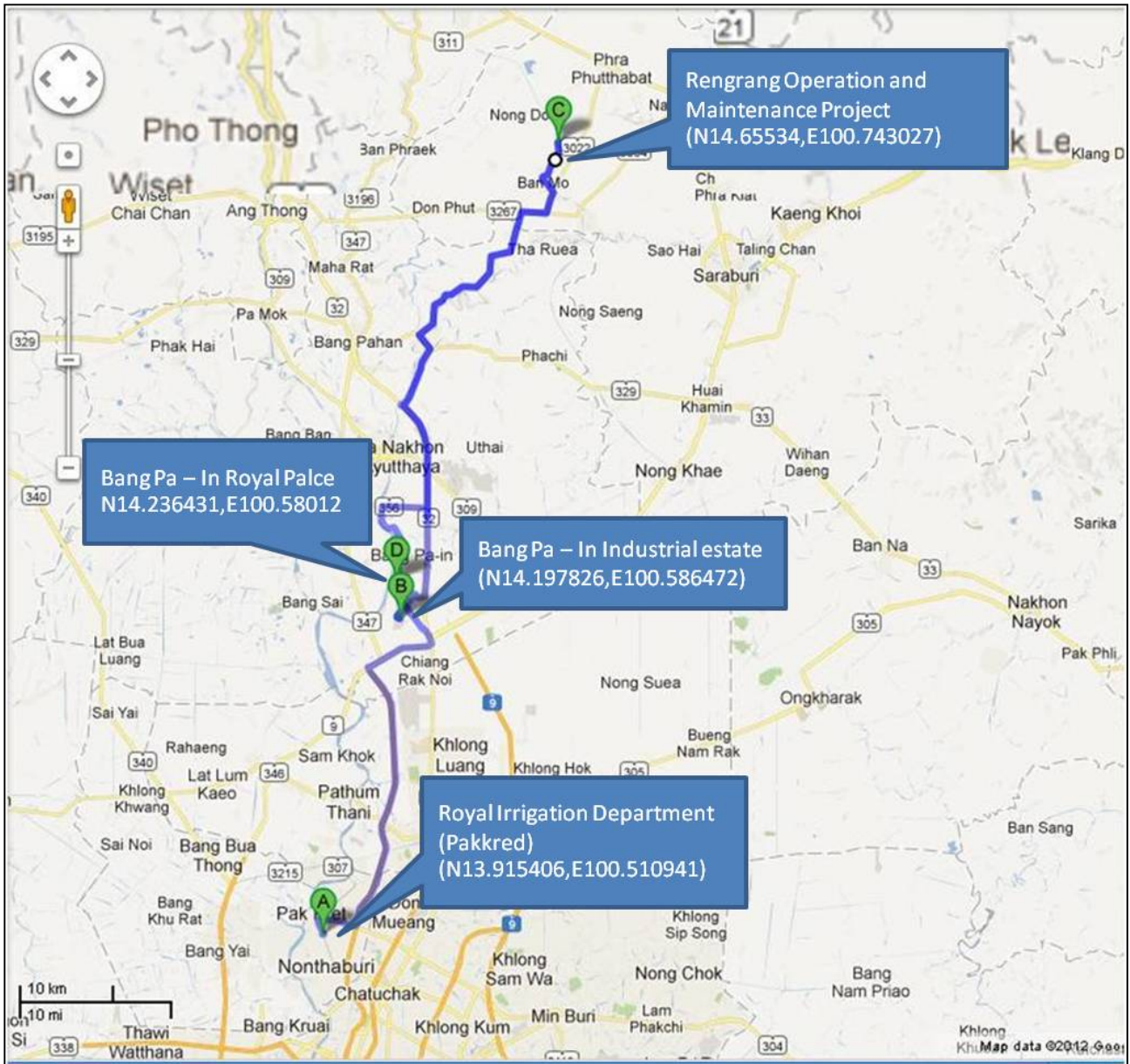
**Meeting Time:**

Thursday, November 29, 2012, 08:30

## SCHEDULED

TIME	ITINERARY
08.30-09.00	Depart from Royal Irrigation Department (Pakkred)
09.00-10.00	<b>Arrive to Bang Pa- In industrial estate</b> Observe flood protection activities
10.00- 11.00	Depart to Rengrang Operation and Maintenance Project Saraburi Province
11.00-12.00	<b>Arrive to Rengrang Operation and Maintenance Project</b> Observe flood recovery activities
12.00- 13.00	Lunch At Rengrang Operation and Maintenance Project
13.00- 14.30	Depart to Bang Pa- In Royal Palace Ayutthaya Province
14.30- 15.00	<b>Arrive to Bang Pa- In Royal Palace</b> Visit to The Royal Palace
15.00- 16.30	Return to Royal Irrigation Department (Pakkred)

## TOURS MAP



## BANGPA-IN INDUSTRIAL ESTATE

Since the start of global trade in Thailand, foreign investors have been streaming into the country, attracted by a wealth of natural resources and skilled workers. As a commercial gateway to Asia and the Far East, Thailand is also a strategic center for both sea and air transport. It is therefore hardly surprising that the nation has experienced a remarkable pace of industrial growth and development.



### General industrial zone

#### Export processing zone

Bang Pa -In Industrial Estate is spread across a total land area of 1,917 rai. The General Industrial Zone comprises 1,078 rai and the Export Processing Zone 159 rai. Another 90 rai are set aside for commercial or residential use. Project infrastructure and amenities cover 390 rai, while landscaping and greenery adorn the remaining 200 rai

### Benefit & privileges

#### General Industrial Zone

- The privilege to own land.
- A permit for alien with specific expertise along with spouse and children to reside and work in the country.
- A permit to remit foreign exchange into/from the country.

#### Export Processing Zone

The operators shall be granted, in addition, the tax benefit of:

- An exemption from business tax and import duty on machineries, equipments, tools and other materials used for construction of factory or building.
- An exemption from business tax, export duty and other taxes for exported products.



### ROAD

#### Main Road:

Reinforced concrete pavement; 14 meters in width, is divided into 4 lanes with 3 meters shoulders. Right of way is 35 meters.

#### Secondary Road:

Reinforced concrete pavement; 8.5 meters in width, is divided into 2 lanes with 2 meters shoulders. Right of way is 27.5 meters.

#### Access Road:

Reinforced concrete Pavement; 8 meters in width, is divided into 2 lanes with 1.5 meters shoulder and 2 meters footpath on each side. The road exists only in Residential Area.

## RENGRANG OPERATION AND MAINTENANCE PROJECT



**Overview:** Rengrang Operation and Maintenance project is one of the ten O&M overseen by Royal Irrigation Office 10 (RIO 10) under Royal Irrigation Department. Their primary missions include provision of agricultural water supply, municipal water supply, and maintenance of hydraulic structure in their irrigational jurisdiction. Rengrang project was found in 1952 and completed its construction in 1964.

**Location and boundaries:** Rengrang O&M project is the fourth irrigation scheme in Chainat-Pasak main canal. Its headwork is located at tambon Sangsok, Ban mor district in Saraburi province, which current territory are described below:

**North:** Adjacent to Mueang district in Lopburi province. It also connects to Nong-done and Praputthabath district in Saraburi province and part of Kokkratieum Operation and Maintenance project.

**South:** Connects to Pasak-Tai and Nakorn-luang Operation and Maintenance project, which separated by Pasak river.

**East:** Adjacent to Banmor and Saohai district in Saraburi province and Klongpreow Operation and Maintenance project

**West:** Adjacent to Mueang, Banpraek and Maharaja district in Ayutthaya province. It also connects to Kokkratieum and Maharaja Operation and Maintenance project.

**Topography:** There are two types of landscape in Rengrang O&M projects, which are:

- 1) Upper part is characterized as combination of lowland and upland areas to the lower part.
- 2) Lower part is mostly a lowland area.

**Soil type:** Vast majority of soil type in Rengrang are clay and sandy loams.

**Project description:** It is a water diversion gate project, which has sluice gate size of 3+6.00 m. Location of the gate is at km. 120+880 of Chainat- Pasak canal.

**Water supply system:** The project receives water from main Chainat-pasak canal from km. 120+780 to km. 132+789. Then, water flows to the 23rd right distributary canal at km. 120+806 and the 24th right distributary canal at km. 129+100.

### **Primary mission of Rengrang Operation and Maintenance project:**

Generally, O&M project have a role of planning and supervision of irrigation water supply in project area, which consist of medium and small-size irrigation facilities. Irrigation and drainage canals provide water allocation. They also oversee maintenance of water supply system, so that it can deliver water efficiently to cropping area throughout



the project boundary. Moreover, they collect historical rainfall-runoff data, water quality and soil type that suitable for cropping in project area. The projects also have administrative works and have to cooperate with related government agency on water supply planning, implementation, conflicts resolution, and advisory role about best practice in irrigation water management to farmers and operation of all sluice gates in O&M project area or the others order from the director. Rengrang have major five divisions.

**Project area:** The project has an approximate 203,781 rai of land area, which covers two provincial boundaries (92,831 rai in Saraburi and 110,950 rai in Ayutthaya provinces), eight districts and 39 sub-districts.

**Irrigated area:** The project has an approximate 173,000 rai of irrigated area, which mostly are paddy fields and others farm plants.

### **Cropping area:**

- Low land area 31.06 %
- Relatively flat area 45.19 %
- slope area 23.75 %