

Signing of Japanese ODA Loan with Kingdom of Thailand

- Supporting development of Chao Phraya River crossing of east-west road network and further railway development to cope with growing transportation demand in the metropolitan area -

1. On September 28, 2010, Japan International Cooperation Agency (JICA) signed a Japanese ODA loan agreement with the Government of the Kingdom of Thailand in Bangkok to finance up to 7.307 billion yen for the Chao Phraya River Crossing Bridge at Nonthaburi 1 Road Construction Project, and also signed another Japanese ODA loan agreement with the Mass Rapid Transit Authority of Thailand to finance up to 16.639 billion yen for the Mass Transit System Project in Bangkok (Purple Line) (II).



2. The Bangkok Metropolitan Area, having a population of over 10 million, is not only a political and economic center of Thailand but also has remained as one of the most important leading cities in the Southeast Asia that attract a number of people to come, and promote trade in goods.

The industrial activities in the Bangkok Metropolitan Area was enhanced owing to the economic recovery after the previous Asian currency crisis, and have brought about serious air pollution problems of automobile exhaust due to chronic traffic congestion. Therefore, alleviation of traffic congestion and development of a new urban railway network has become urgent challenges. Since the transportation demands in the west bank of Chao Phraya River along the proposed purple line would increase due to the future population increase and urbanization, the proposed two projects are expected to contribute significantly to the further development of the transportation network in the area.

3. Outlines of two proposed Projects are as follows;

(1) Improvement of efficiency of transportation network and alleviation of traffic congestion by the proposed bridge

Japan has contributed to alleviation of traffic congestion in the Bangkok Metropolitan Area, extending Japanese ODA loans to construction of 13 bridges out of 20 bridges crossing Chao Phraya River. Meanwhile, the Project area does not have enough transportation network to accommodate growing transport demands associated with the expanding urbanization, and suffers from serious traffic congestion, particularly in the morning times and the evening times. The proposed Chao Phraya River Crossing Bridge at Nonthaburi 1 Road Construction Project aims at solving the current transportation problems and eventually activating industries as well as improving urban environment in the Project area.

(2) Further development of the urban railway system in the Bangkok Metropolitan Area

For the urban railway system in the Bangkok Metropolitan Area, the Skytrain began its operation in December 1999, the Blue Line financed by Japanese ODA loans (the MRTA Initial System Project (I) – (V)), opened in July 2004 and the Airport Rail Link has started up in August 2010. Since such urban railway development was limited in network density and interconnection among railway routes, it is not enough to cope with the growing transportation demand.

The Mass Transit System Project in Bangkok (Purple Line) (II) aims at developing railway system in the serious traffic congestion area. It is expected that the Project will contribute to accommodation of growing transport demand as well as alleviation of air pollution caused by automobile exhaust.

4. For the proposed Projects, JICA has provided various kinds of assistance for the Project's effects and sustainability. Major activities are as follows:

(1) For Chao Phraya River Crossing Bridge at Nonthaburi 1 Road Construction Project, since the proposed bridge is the first extra-dosed type bridge [1] in Thailand, an engineering experts team has been dispatched to the Project to ensure the safety control in the construction. Furthermore, JICA will provide a technical assistance program to the Project executing agency, Department of Rural Roads under Ministry of Transport, for formulating long term maintenance management plans for Chao Phraya River crossings.

(2) For Mass Transit System Project in Bangkok (Purple Line) (II), it is planned to use some advanced universal designs for barrier-free facilities including lifts and slopes. JICA will provide a training program for engineering to the Project executing agency, Mass Rapid Transit Authority of Thailand. Furthermore, HIV/AIDS prevention measures are undertaken in the Project works to cope with a potential epidemic of infection diseases due to employment of massive labor.

Related Link

➤ [Project Map \(PDF/441KB\)](#)

Reference

1. Terms and Amounts of Loan

Project title	Amount (million yen)	Annual interest rate (%)		Repayment Period (years)	Deferment period (years)	Procurement
		Project	Consulting Services			
Chao Phraya River Crossing Bridge at Nonthaburi 1 Road Construction Project	7,307	0.95	NA	20	6	General untied
Mass Transit System Project in Bangkok (Purple Line) (II)	16,639	1.4	0.01	25	7	General untied

2. Project Summaries

(1) Chao Phraya River Crossing Bridge at Nonthaburi 1 Road Construction Project

Objectives and Summaries

This project is to construct a bridge crossing Chao Phraya River at a site in Nonthaburi Province in the Bangkok Metropolitan Area where serious traffic congestions are prevailed, and aims at improving efficiency in the transportation network and alleviating traffic congestion in the area and eventually at contributing to activation of industries and improvement of urban environment. The loan will be used for procurement of works and goods for construction of a main bridge, approach roads and ancillary facilities.

Since the proposed bridge is the first extra-dosed type bridge in Thailand, an engineering experts team has been dispatched to the Project to ensure the safety control in the construction. Furthermore, JICA will provide a technical assistance program to the Project executing agency, Department of Rural Roads under Ministry of Transport, for formulating long term maintenance management plans for Chao Phraya River crossings.

Executing Agency

Ministry of Transport, Department of Rural Roads
Address: 9 Phaholyotin Road, Bangkhean District Bangkok 10220
Phone: +66-2-551-5555, Fax: +66-2-551-5999

Planned Implementation Schedule

(i) Completion of project: October 2013 (when the facilities are put into service)

(ii) Tender announcement for international competitive bidding on project construction:

Procurement package title: Civil Construction Package

Release date: September 2010 (Already sent)

(2) Mass Transit System Project in Bangkok (Purple Line) (II)

Objectives and Summaries

This project is to construct a mass transit railway system (elevated train, 16 stations, 23km length) running between Bang Sue in the Bangkok center and Bang Yai in the northwest of Bangkok, and aims at coping with the growing transportation demand, alleviating traffic congestion and also mitigating urban air pollution. The loan will be used for procurement of civil works and consulting services for construction of railway stations, depot and railway tracks. Meanwhile, operation and maintenance of the railway system will be consigned to a private operator under a concession basis.

The Project will use advanced universal designs for barrier-free facilities (including lifts and slopes). This is expected to contribute to improvement of public transport means to facilitate easy movement of disabled people. Furthermore, Thai Government is considering to open new bus routes from newly established railway stations and introduce a common ticketing system applicable to different transportation modes such as subways, elevated railways and busses.

Executing Agency

Mass Rapid Transit Authority of Thailand: MRTA
Address: 175 Rama IX Rd., Huai Khwang, Bangkok 10320, Thailand
Phone: +66-2612-2444, Fax: +66-2612-2363

Planned Implementation Schedule

(i) Completion of project: August 2014 (when the facilities are put into service)

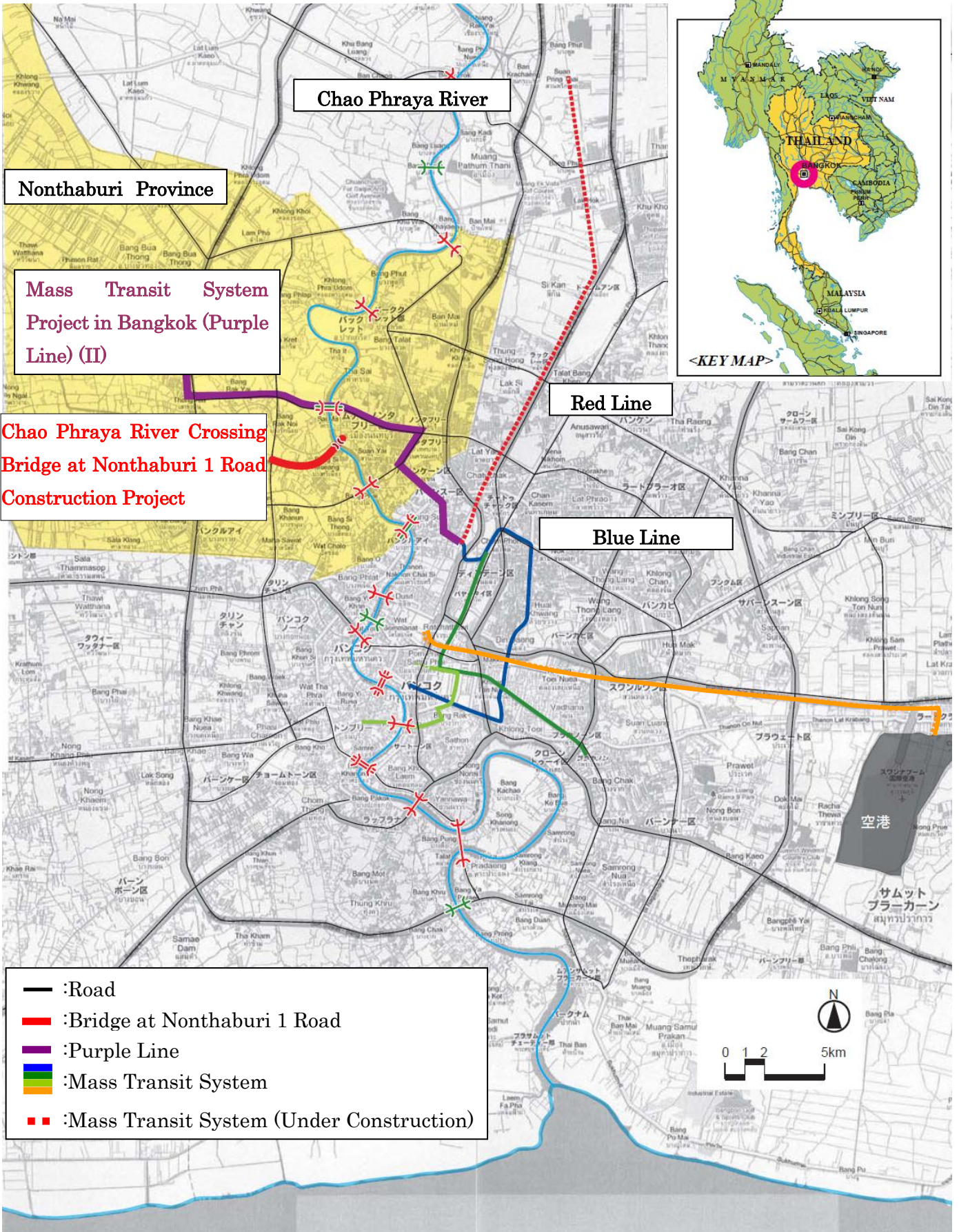
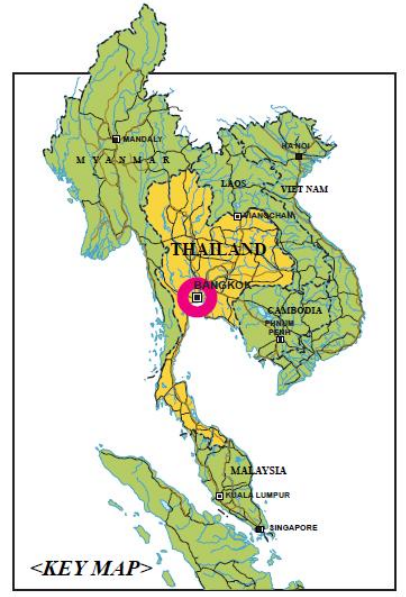
(ii) Tender announcement for international competitive bidding on project construction:

Procurement package title: Track Works Package

Release date: October 2010 (Prequalification and Tender)

[1] Extra-dose type bridge is one of the PC (prestressed concrete) bridge, having some intermediate features of cable-stayed bridge and girder bridge. It looks like PC cable-stayed bridge in appearance, but it is featured to have a lower main tower and low angled, nearly horizontal, diagonals.

MAP



- :Road
- :Bridge at Nonthaburi 1 Road
- :Purple Line
- :Mass Transit System
- :Mass Transit System (Under Construction)

