



# Overview of oversea project

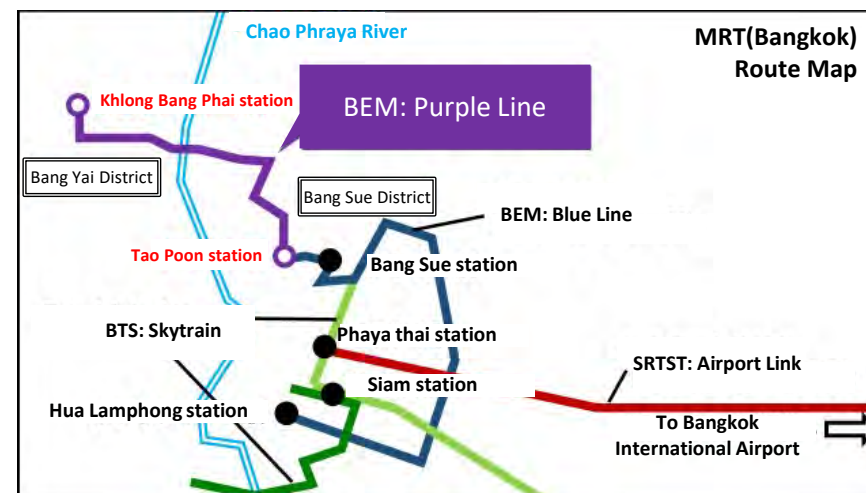
## Electrical System integration office(ESIO)

# Overview of Purple line project

- Operating company: Bangkok Expressway and Metro Public Company Limited(BEM)
- Maintenance company: Japan Transportation Technology Co., Ltd.(JTT)

(Investing company: JR East)

- Range: Tao Poon to Khlong Bang Phai
- Number of stations: 16 stations(approximately 23km)
- Number of cars: 63(3 cars per train x21 units)
- Headway: 6minuts interval at peak time(12 times)
- Opened since: 2016/8/6



## 【ESIO's contribution for this project】

- Troubleshooting Support for Post-Opening Maintenance
- Proposal of a Maintenance Plan for the Next 10 Years
- Verification of Concerns Regarding Substation Facilities for Planned Extension Sections

# Overview of high speed railway project in India

- In the “Indian Railway Vision 2020”, plans for seven high-speed railway lines are outlined.
- Among them, the approximately 500km Mumbai to Ahmedabad route has been determined as the top priority for development.
- In December 2015, the high-speed railway line between Mumbai and Ahmedabad decided to adopt Japan's high-speed rail technology (Shinkansen system).
- In December 2016, the 'Detailed Project Report for High-Speed Rail Corridor' was initiated. A joint venture company called JICC was established to progress with detailed design, preparation of bidding documents, and investigation for supporting the bidding process for the concessional loan project.

## 【ESIO's contribution for this project】

"At the request of JIC, we carried out the dispatch of technical experts for design tasks and conducted design review activities."











Marine Drive(Mumbai)

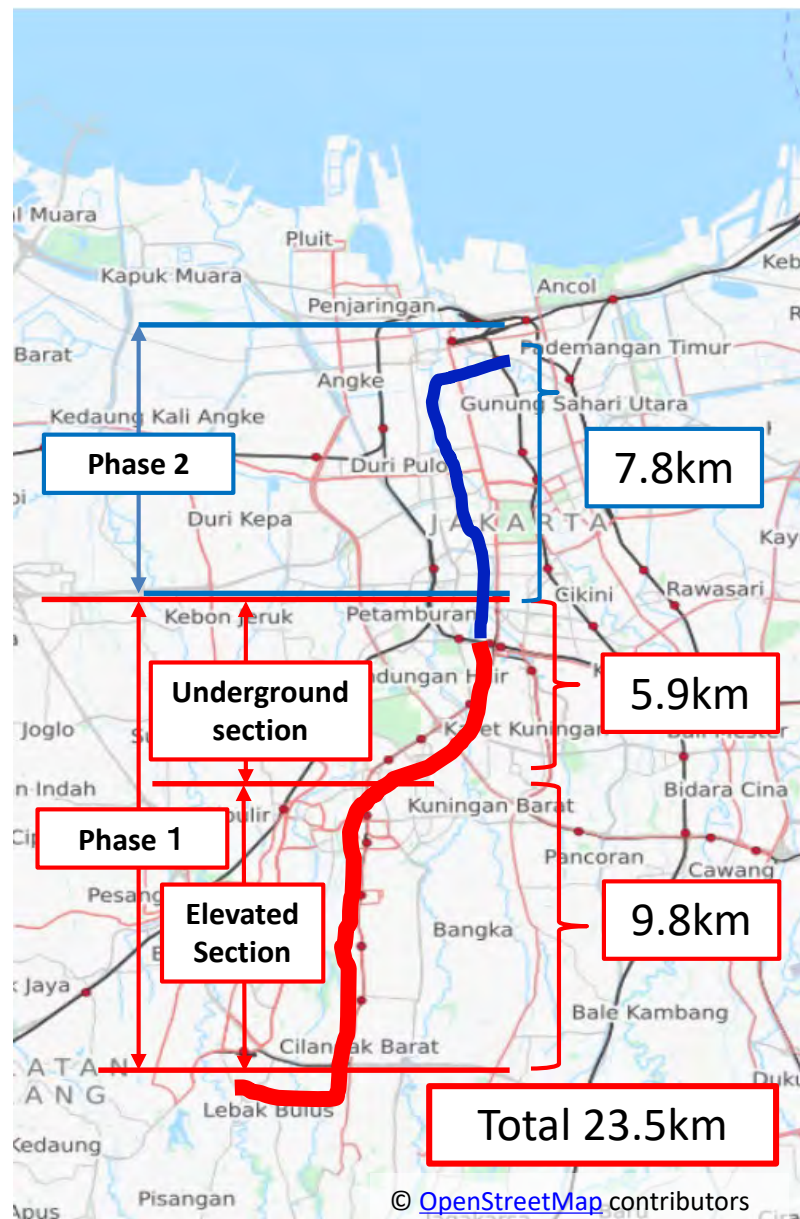




Humayun's Tomb



## Overview of Jakarta MRT North-South Line Phase2



- To alleviate the severe traffic congestion resulting from rapid urbanization, the Metropolitan Rapid Transit (MRT) system consisting of East-West and North-South lines is being developed in the central area of Jakarta.
- Phase 1 of the project has been operational since April 2019.
- Phase 2 involves the northern section, which spans from Bundaran HI to Kampung Bandan, covering a total distance of 7.8 km. This segment encompasses civil engineering, electrical engineering, and vehicle procurement.
- Operating Company: MRT Jakarta
- Number of Stations: 8 stations (1 above-ground, 7 underground)
- Power Supply: DC 1,500V, Overhead (above-ground section), Rigid Overhead Conductor (underground section)
- Signaling System: CBTC (Communication-Based Train Control)
- Headway, Train Composition: 5-minute interval, 6 cars per train
- Scheduled Opening: June 2025
- Source: Based on JICA Project Evaluation Report - Jakarta Metropolitan Rapid Transit Project (Phase 2) (First Period)

### 【ESIO's contribution for this project】

At the request of JIC, we provided support for design tasks and other activities. We have plans to continue offering assistance for construction supervision.









**MRTJ Lebak Bulus Grab station**