

BOMBARDIER

SITE FACT SHEET

Bangkok, Thailand

Basic Information

Total area: 4,300 m²

Bombardier's Rail Control Solutions (RCS) Division site in Thailand, with a workforce of highly-skilled signalling engineers, works on Thai and international contracts. The office is also the RCS headquarters for the Asia-Pacific Region, supporting other regional offices, projects and sites.

The site was the first regional signalling engineering hub in Asia. The team is currently involved in the development of highly advanced signalling solutions for a large number of Bombardier projects around the world.

Competencies

- Engineering and product development for global applications
- Project management and project delivery for regional applications
- Procurement
- Installation, testing and commissioning
- Customer services
- Sales and business development for Asia- Pacific Region

Main Products and Contracts over the last ten years

Thailand:

2004 - 2006 Commissioning *INTERFLO* 220 mainline solution and installation of *EBI* Lock 950 computer-based interlocking (CBI) system for Double Tracking on second and third stage track of State Railway of Thailand.

2007 - 2011 Installation /commissioning of *CITYFLO* 450 solution on the Sukhumvit and Silom lines of the Bangkok Transit System (Skytrain), Thailand.

With further contracts: 2.2 km Silom line extension (Saphan Taksin to Wongwian Yai Station, operation in 2009), Sukhumvit line extension (Onnut to Bearing station, operation in 2011) and further 5.3 km Silom line extension (Wongwian Yai to Petchkasem station, awarded 2011).

Asia – Pacific projects:

2001 Delivery of *INTERFLO* 250 ERTMS Level 1 solution for ATP **Taiwan**, for 756 vehicles and 1200 km of mainline railway with 157 stations.

2004 - 2008 Commissioning *INTERFLO* 250 encompassing *EBI* Cab 2000 ATP and ATS STM-ERTMS Level 1 system for Korea National Railway (KNR) ATP Gyeongbu and Honam lines, **South Korea**.

- 2006 - 2008 Delivery of *EBI* Lock 950 CBI system for the third stage of Busan Line 2 - Busan Line 2 extension, **South Korea**.
- 2007 Delivery of *CITYFLO* 350 fixed block solution for 31 km of double track for Delhi Metro Lines 5 and 6, **India**.
- 2009 Commissioning of *INTERFLO* 450 ERTMS Level 2 solution for 1000 km dedicated 300 km/h (record for ERTMS) high speed Wuhan-Guangzhou DPL, **China** (record high speed for ERTMS), plus delivery of 60 onboard ATP sets and parts and nine RBC systems
- 2009 Contract for *CITYFLO* 650 CBTC solution for new Tianjin Metro Lines 2 (19 stations (18 underground) and 23 train sets) and Line 3 (29 km, with 23 stations and 27 train sets), **China**
- 2010 Supply of *INTERFLO* 200 mainline solution for 800 km on Karachi to Lahore line of **Pakistan** Railways including *EBI* Lock 950 CBI and *EBI* Screen 2000 control centre systems.
- 2011 Completion of *CITYFLO* 650 CBTC solution delivery for 32 km, 22-station Shenzhen Metro Line 3 - delivered in only 22 months and Bombardier's first application of this technology on a steel-wheel, mass transit line in **China**

Global projects:

The engineering team also undertakes work for projects around the world, including: *CITYFLO* 350 solutions delivered for metro systems in Bucharest (Romania), Istanbul (Turkey) and Bilbao, Barcelona and Seville (Spain), and being delivered in Lima Peru.

Historical Milestones

- 1964 Bombardier supplied first diesel locomotives to the State Railway of Thailand
- 1997 Established as the Asia Pacific Regional Management Hub and Regional Engineering base for signalling in Bangkok - part of ABB Daimler-Benz Transportation (Signal) Limited
- 1997/1998 State Railway of Thailand (SRT) awarded resignalling contract of Hua Mak station and commissioned one of the first electronic interlocking systems *EBI* Lock 950 CBI solution including supply of *EBI* Switch point machine systems
- 1999 Company changed name to Daimler Chrysler Rail Systems (Signal) Limited
- 2001 Company changed name to Bombardier Transportation Signal (Thailand) Ltd

Certifications

- Quality Management System Standard, ISO9001:2008
- Quality Management System Standard, ISO14001:2004
- Occupational Health & Safety Management, BS OHSAS 18001:2007
- International Railway Industry Standard (IRIS), Rev. 02
- Grand Prix of the Year 2004 - Business Excellence Awards from Thai –Canadian Chamber of Commerce

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