SIEMENS

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Industry Sector
Mobility Division

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Siemens to supply advanced signaling systems to Beijing Metro Line 10 & 8 Phase 2

Siemens and its local partner China National Railway Signal & Communication Corporation (CRSC) are awarded the contracts to supply the advanced signaling systems to the Phase 2 of Beijing Metro Line 10 and Line 8. The total contract volume is around RMB 650 million. It is the second time Siemens provides the cutting-edge Trainguard MT automatic train control system to Beijing metro lines after the successful operation of Beijing Metro Line 10 Phase 1 and Metro Line 8 Phase 1 (Olympic Branch Line) in 2008. The two new lines are expected to be put into operation by the end of 2012 to further help ease the transportation pressure of Beijing. "With this project, Siemens demonstrates again its strong commitment to supporting the infrastructure development of Beijing", said Mr. Joachim Kraege, Senior Vice President of Siemens Ltd., China and General Manager of Mobility Division.

Line 10 Phase 2 is about 32.33 km in length with 23 stations. Linking Jinsong Station and Bagou Station, Line 10 Phase 2 forms the south-west half ring of the circle, and will be connected with Line 10 Phase 1 to form a second metro loop line in Beijing. When Phase 2 is finished, Line 10 will be the longest metro line equipped with the advanced Communication–Based Train Control (CBTC) system worldwide. Line 8 Phase 2 extended Olympic Branch Line north to Huilongguan East Station and south to Chinese Museum of Art Station. In all, the extensions will add 17 km and 12 stations. The extended Line 8 will serve as an important north-south link of the city. After completion of the two lines, they will play a significant role to improve the transportation efficiency of Beijing's rail transportation network.

According to the contract, Siemens will provide these two lines with the most advanced modular Trainguard MT automatic train control system, including the operation control center, the way side facilities comprising the interlockings, the automatic train control and radio systems, and the on-board components for the 82 trains of the two lines. In Phase 2 of Line 10 and Line 8, the moving-block automatic train control (ATC) technology and continuous bidirectional data transmission by

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WLAN radio are also to be applied after their sound performance in the Phase 1 of both lines. This technology ensures an optimized headway and will greatly improve the operation efficiency. The Trainguard MT system provides automatic train operation (ATO) with perfect passenger comfort and excellent stopping accuracy at platforms.

Siemens Trainguard MT technology greatly supported the safe, punctual and efficient operation of Phase 1 of both lines since their official operation starting from the Olympic Games Beijing 2008. With a dense headway of 3 minutes, the two lines successfully transported about 7.41 million passengers during the Olympic Games and made great contributions to the success of the mega event. This state-of-the-art automatic train control system from Siemens is widely applied on the metro lines worldwide, including Guangzhou Metro Line 4 and 5, Nanjing Metro Line 2 in China as well as on the new metro lines in Istanbul (Turkey), Helsinki (Finland) and Paris (France).

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Siemens in China

Siemens is one of the most well-known, liked and respected corporate citizens in China. Marked by the delivery of China's first pointer telegraph in 1872, it is among the earliest international companies to pioneer cooperation with China. Over more than a hundred years, Siemens has stood for technical achievements, innovation, quality, reliability and internationality. Presently, Siemens maintains about 90 operating companies and 61 regional offices in China, representing all business sectors of Siemens worldwide – Industry, Energy and Healthcare. These offices, together with the Regional and Provincial managers, are the backbone of Siemens' regional strategy and ensure that the company is close to its customers to be able to respond quickly and efficiently to their needs. With more than 43,000 highly qualified local staff, Siemens has become one of the largest employers amongst foreign invested enterprises in China and an integral part of the Chinese economy. Today, by applying a wide array of environmental portfolio and innovative solutions in the cooperation with local partners, the company is committed to contributing to the sustainable development of the country.

Siemens Mobility Division in China

Siemens Mobility Division is the reliable and strong partner of Chinese transportation and logistics industry. With its "Complete mobility" approach, Siemens Mobility offers sustainable mobility solutions that integrate the various transportation systems in order to transport people and goods with greater efficiency, safety and environmental friendliness. For this purpose, the Division has concentrated all its competencies from operating systems for railways and road traffic, traction power supplies and rolling stock for mass transit, regional and mainline services, to airport logistics and postal automation. In the past more than 100 years, Siemens Mobility has successfully contributed to the rapid-growing transportation infrastructure development

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and modernization throughout China. It includes mass transit projects in Shanghai, Guangzhou, Shenzhen and Nanjing, Beijing, Chongqing, Suzhou, Hangzhou and Dalian, main line projects such as signaling, AC locomotives and high-speed train components, and the world's longest railway electrification from Harbin to Dalian, as well as the infrastructure logistics projects like the baggage handling system of Beijing International Airport Terminal 3. As part of the China's wide set-up, Mobility China has dedicated representatives in 8 offices including Beijing, Shanghai, Guangzhou, Shenzhen, Nanning, Xi'an Zhuzhou and Nanjing, with Beijing as the head office. Together with its local partners, Mobility China has established three joint ventures in Xi'an, Zhuzhou and Nanjing, where the signaling and control systems, key components for locomotives, and electrification components are manufactured for the Chinese and selected export markets. Further information on Mobility can be found at www.siemens.com.cn/mobility

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