

Paris, 14 June 2016

INDIA: SYSTRA CHOSEN AS GENERAL CONSULTANT FOR THE NAGPUR METRO PROJECT

The SYSTRA-AECOM-Egis Rail-Rites consortium led by SYSTRA, has been awarded the mission of General Consultant for the first phase of the Nagpur metro project. This contract strengthens SYSTRA's position in the supervision of urban transport infrastructure projects in the peninsular.

Jean-Charles Vollery, Asia-Pacific Regional Director: *"Nagpur Metro Rail Corporation Limited (NMRCL) has chosen SYSTRA as general consultant for the creation of the first two lines in this city of more than two million inhabitants. The award of this new contract to SYSTRA, in addition to the six projects already underway in Indian megacities, highlights the confidence shown by the Indian transport authorities in our ability to manage complex projects. "*

Two metro lines to build the sustainable city of the future

Considered as the second cleanest city in India and the second most green, local authorities are dedicated to maintaining this ranking while supporting the demographic and economic growth of Nagpur through the development of public transport infrastructure. They therefore selected the SYSTRA-AECOM-Egis Rail-Rites consortium, the members of which have together contributed to the construction of all metro projects in India, to build the city's first two metro lines.

The Nagpur metro project has two lines:

- The first line of nearly 20km will link the city's two main gateways from North (Kamptee) to South (Wardha) with 17 stations, of which 15 will be elevated. It will serve the city's current international airport, Dr. Babasahed Ambedkar, as well as the future neighbourhood to be built under the MIHAN project, *Multi-modal International Cargo Hub and Airport at Nagpur*. This development project is the largest currently underway in India, and should lead to the creation of a new international airport and a dedicated economic zone.
- The second line, which will be 18.5km long, will run East to West and link Bhandara and Hingna with 19 elevated stations. It will serve Nagpur's central train station (100,000 passengers per day), the more residential areas of the city as well as the economic hub and its university districts.

Currently under contract for the construction of six metro systems in India, SYSTRA supports the transport authorities to provide sustainable mobility solution to urban populations

SYSTRA is very present in India to support the country in the development of its urban transport. In 2015, the group was awarded three large-scale metro projects: a mission of general consultant for the Ahmedabad metro, phase two studies for the Chennai metro, as well as studies for the underground section of the second metro line in Calcutta. At the same time, SYSTRA is carrying out studies on more than 70km of lines in phase three of the Delhi metro as well as those relating to the first extension of phase two in the Bangalore metro and the Lucknow metro.

A mission as general consultant for the Ahmedabad driverless metro system: named MEGA for *Metro Link Express for Gandhinagar and Ahmedabad*, this 27km-long metro will serve the cities of Ahmedabad (around 7.2 million inhabitants) and Gandhinagar (the capital of the state of Gujarat with 1.3 million inhabitants). This new

network will comprise two lines spanning a total length of 37.7 km, with 28 overground and 2 underground stations. This project, which serves as a reference for the country, will transport 675,000 passengers each day.

Chennai metro Phase I Extension: inaugurated in June 2015, the Chennai metro system, at 45km long, has two lines and 32 stations.

As the fourth largest Indian city, the agglomeration of Chennai has 8 million inhabitants and generates some 11 million journeys each day, of which 6 million in motorised form. In response to the huge increase in road traffic in the city, the government decided more than five years ago to create this new metro network. Use of the system is expected to be around 500,000 passengers per day, and short-term estimates exceed one million. Systra is currently undertaking detailed design and drawings for the complete alignment, stations (both Elevated and Underground) for the section from Washermenpet to Wimco Nagar, 9 kms, for Chennai Metro Rail Project Phase I Extension. The scope includes design of Civil Works, Architectural Works, MEP Works and Depot works.

Studies for the underground section of the second metro line in Calcutta: the metro system in Calcutta, a city of 14.5 million inhabitants, is the leading metropolitan network commissioned in India in 1984. The first stage of construction of its second line, which runs 14.7km from East to West Calcutta and has 12 stations, finished at the end of 2013. Systra is currently undertaking this underground section is phase two of the project under design and build contract, Composed of three stations, along a 3km stretch, it will link Howarah and Sealdah - the two most heavily frequented stations in the world. The technical challenge of this project: the construction of a tunnel under the Hoogly river, which will be a first for the country. 480,000 passengers are expected to use this metro line each day.

Lucknow Metro Rail Project involves a construction of 35km of line with 34 stations divided in two corridors: North south corridor: 23 km of line with 22 stations (Phase 1), from Amausi airport to Munshi Pulia section; East-West corridor: 12km of line with 12 stations (Phase2), from Vasant Kunj to Charbagh section. SYSTRA India was appointed as Consultant to provide Detailed Design for Civil Architectural and E&M works of elevated corridor, underground corridor and Depot for the entire project.

SYSTRA, in consortium, has successfully completed Mumbai Line 1 and Bangalore Metro Phase I projects.

SYSTRA in India

SYSTRA is proud of a long and valued partnership with India. Our association dates back to 1950's when we were selected to provide technology for the electrification of the Indian Railways. The 25 kV traction system has since become the backbone of Indian Railways. During the 1980's SYSTRA has provided assistance for India's first metro project – the Kolkata Metro.

Since the late 1990's, SYSTRA's presence in the country has grown from a liaison/project offices to a wholly-owned subsidiary in 2005, known as SYSTRA MVA Consulting (India) Private Limited. SYSTRA India employs about 450 staff today working on most of the major rail projects across India and supporting our worldwide operations through design production. SYSTRA India has been certified ISO 9001 in 2015.

In 2014, SYSTRA has acquired SAI, an Indian company based in Ahmedabad with a staff of 600 to consolidate its position on the Indian market and expand its activity to PMC in conventional and freight rail project India through new projects.

About SYSTRA

The global leader in public transport infrastructure, SYSTRA has specialised in the mass transit and rail market since 1957. The main shareholders of SYSTRA are SNCF and RATP. Its ambition is to serve emerging needs for collective and sustainable mobility throughout the world. With a presence in 80 countries, SYSTRA manages over 3,000 projects for high-speed systems, traditional rail lines, metros and tramways throughout the world

It has contributed to the construction of one out of every two metro systems in the world and is currently working on Lines 15, 16 and 17 of the Grand Paris Express transit project. SYSTRA is working on line 16 of the Shanghai metro. SYSTRA is in charge of the construction of two new automated metro lines in Santiago, Chile, and the automation of a 13 km stretch of the rapid transit line between Epping and Chatswood in Australia.

In France, SYSTRA has worked on every high-speed line and is presently working on four projects: the Sud Europe Atlantique link-up between Tours and Bordeaux, the EST phase 2 high-speed line, the Nîmes/Montpellier bypass and the Brittany - Pays de Loire line. SYSTRA is also involved in the Tanger – Kenitra high-speed line in Morocco. SYSTRA is a stakeholder in projects in India, Malaysia and Thailand. SYSTRA has built its expertise on contributions to high-speed infrastructures throughout the world, and notably its contribution to the establishment of sustainable high-speed networks in Asia: South Korea, Taiwan, China, etc. Its subsidiary Canarail won the rolling stock renovation contract for the prestigious Rocky Mountaineer tourist train line in Canada.

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