

# REQUEST FOR EXPRESSIONS OF INTEREST

**The People's Republic of China**

**GEF Large City Congestion and Carbon Reduction Project**

**Project ID No.: P127036**

**Assignment Title: International Public Transport Specialist (ITS) on Technical Support for the Study of Research on Guidelines for Urban Intelligent Public Transport System Construction and Application**

**Reference No. (as per Procurement Plan): CCR/CS11-MOT**

The People's Republic of China has applied for financing from the World Bank toward the cost of the GEF Large City Congestion and Carbon Reduction Project ("the Project"), and intends to apply part of the proceeds for individual specialist.

The attention of interested individual Consultants are drawn to paragraph 1.9 of the World Bank's *Guidelines: Selection and Employment of Consultants under IBRD Loans and IDA Credits & Grants by World Bank Borrowers* ("Consultant Guidelines"), setting forth the World Bank's policy on conflict of interest.

A Specialist will be selected in accordance with the World Bank's *Guidelines: Selection and Employment of Consultants under IBRD Loans and IDA Credits & Grants by World Bank Borrowers* ("Consultant Guidelines") for individual specialist.

The terms of reference is as below and the further information can be obtained at the address below during office hours 09:00 to 17:00 on working days only.

Expressions of interest must be delivered in a written form to the address below by mail by January 6, 2015.

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**GEF Large City Congestion and Carbon Reduction Project**  
**Terms of Reference for Consulting Service of**  
**International Public Transport Specialist (ITS) on Technical Support**  
**for the Study of *Research on Guidelines for Urban Intelligent Public***  
***Transport System Construction and Application***  
(CCR/CS11-MOT)

## **1. Project Background**

With rapid economic development and acceleration of urbanization, the urban motorization of Chinese cities entered into a boost period. Civil car ownership in China has reached 240 million by the end of 2012. The fast growth of cars in many cities, such as Beijing and Shanghai, has led to severe traffic congestion, rapid increase of pollutants and carbon dioxide emissions, and decrease of the living quality of the urban residents, and caused enormous economic loss and serious constraint to sustainable urban development. Therefore, to ease congestion in large cities and reduce the carbon emissions has become a major challenge facing municipal governments at all levels. Governments at both the national and the local levels and all relevant departments have regarded “addressing global climate change” as the fundamental development strategy of the nation and included it into the relevant medium- and long-term development planning.

Ministry of Transport (MOT), as the central government agency responsible for guiding the urban passenger transport, has taken the traffic congestion and carbon emissions reduction as one of its top priorities. In the face of huge challenges of increasingly serious traffic congestion and carbon dioxide emissions in large cities, it is urgent to learn from the international practical experience, formulate effective laws and policies and take reasonable technical and economic measures so as to guide the scientific development of sustainable urban transport in China.

Under such background, the GEF-funded “Large City Congestion and Carbon Reduction Project” has been approved. Ministry of Transport is the central executing agency of the project. Suzhou, Harbin and Chengdu municipal government are the local executing agencies; the project management office of Ministry of Transport (hereinafter referred as National PMO) and three Local Project Management Offices (hereinafter referred as Local PMO) are responsible for the implementation of the respective projects while the National PMO is in charge of the general coordination. The World Bank is one of the implementing agencies of GEF. Transport Planning and Research Institute, MOT (“PIU1”), China Academy of Transportation Science, MOT (“PIU2”) and Research Institute of Highway, MOT (“PIU3”) are Project Implementing Units which undertaking the relevant subprojects respectively. *Guidelines for Urban Intelligent Public Transport System Development and Application* is one of the subprojects of GEF Large City Congestion and Carbon Reduction Project, which is undertaken by Research Institute of Highway, MOT.

In order to ensure the smooth implementation and expected achievement of the subproject of *Guidelines for Urban Intelligent Public Transport System Development and Application*, an individual consultant of International Public Transport Specialist (ITS) shall be selected to provide technical support and consulting services for Research Institute of Highway, MOT in the said subproject by making full use of his or her international experiences and technologies advantages.

## **2. Subproject Objective**

The objective of subproject of *Guidelines for Urban Intelligent Public Transport System Development and Application* is that based on “public transport priority” concept, analyze the main problems in urban intelligent public transport system construction and application, draw on

the advanced experience from domestically and overseas, absorb the application of new generation of communication and information technology, establish a set of high generality, feasibility and long-term planning guidance document for urban intelligent transport system construction and application.

### **3. Consulting Tasks**

The international public transport specialist (ITS) shall perform the following tasks:

- **Task 1: provide technical suggestions and revision assistance to improve the study proposal and interim report, including the following aspects:**
  - International typical cases of urban intelligent public traffic system, include advanced function characteristics, application effect, the experience of achievements and existing problems.
  - Innovation about the international intelligent public transport system realm, including the internet of things and the application of the new generation of communications technology.
  - The construction, operation management and technology application of the urban intelligent public transport system abroad (mainly conventional ground public transportation)
- **Task 2: Review and revise the report (in English version) for each phase.**
- **Task 3: Attend the forums and important meetings related to the project, and make the presentations**

### **4. Deliverables**

The international public transport specialist (ITS) shall provide the following reports:

- 1) Investigation report about the construction and operation of the foreign urban intelligent public transport system – management section.
- 2) Investigation report about the construction and operation of the foreign urban intelligent public transport system – technology application section.
- 3) Collection of the foreign urban intelligent public transport relative material.

### **5. Required Consultant Input and Qualification**

The consulting service shall be implemented within 15 months from October 2014 to December 2015. In the duration, the time input for the international public transport specialist (ITS) is two person-months. The individual consultant shall keep close cooperation with the relevant research institute and its' personnel, to complete the contract tasks.

Qualifications for the international public transport specialist (ITS): shall have at least 15 years working experience on construction, management, application, maintenance of the intelligent public transport system, and have taken more than 3 similar assignment or project; shall have participated in or studied some ITS projects which used the new generation technology of communication, hardware devices or network; shall be familiar with research area of ITS including intelligent dispatch, signal priority for public transport, information service, bus lane management, decision support and the relationship between the public enterprise and the relative administrative department; shall have enough knowledge and accumulation of ITS relevant standard on system composition, system function, devices requirement, principle of device layout and application effect.