

# 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 Urban Transport Carbon Emissions Specialist on Technical Support for the Study of Development of the Urban Transport Carbon Emissions Monitoring and Evaluation System (Monitoring & Evaluation System for Urban Transport Carbon Emissions and Pilot City Evaluation)**

**Reference No. (as per Procurement Plan): CCR/CS8-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 Urban Transport Carbon Emissions Specialist on**  
**Technical Support for the Study of *Development of the Urban Transport***  
***Carbon Emissions Monitoring and Evaluation System (Monitoring &***  
***Evaluation System for Urban Transport Carbon Emissions and Pilot City***  
***Evaluation)***  
**(CCR/CS8-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. ***Monitoring System for Urban Transport Emissions and Pilot Evaluation*** is one of the subprojects of GEF Large City Congestion and Carbon Reduction Project, which is undertaken by China Academy of Transportation Science, MOT.

In order to ensure the smooth implementation and expected achievement of the subproject of ***Monitoring System for Urban Transport Emissions and Pilot Evaluation***, **an individual consultant of urban transport carbon emissions specialist with international experience** shall be selected to provide technical support and consulting services for China Academy of Transportation Science, MOT in the said subproject by making full use of his or her international experiences and technology advantages.

## **2. Subproject Objective**

Objective of the subproject is to help build and improve statistics system for energy consumption and carbon emission of urban transport and build general framework of monitoring and evaluation system for urban transport carbon emission, and provide necessary technical support to establish and improve monitoring and evaluation system for urban transport carbon emission. Put forward guideline proposal of monitoring and evaluation system for urban transport carbon emission, so as to normalize the establishment of urban transport carbon emission monitoring index system in cities such as Harbin, Chengdu, Suzhou demonstrations, to improve technical means for carbon emission evaluation, instruct demonstration cities to build monitoring and evaluation work system for carbon emission and to promote project organization and implementation smoothly.

### **3. Consulting Tasks**

The urban transport carbon emissions specialist with international experience shall perform the following tasks:

- **Task 1: provide technical guidance and suggestions to improve the study proposal and interim report, including the following aspects:**
  - The current application status of the urban transport carbon emissions models in the Europe and America
  - The international experience of urban transport carbon emissions monitoring and evaluation system building in Europe, America.
  - Update international practices on urban transport energy consumption statistics including statistics indicators, statistics scope, statistics frequency, statistics and evaluation methods, implementation steps, organizational mechanism and etc., especially the online energy monitoring in details.
- **Task 2: Review and revise the report (in English version) for each phase.**
- **Task 3: Provide the guidance report on methodology identification & model building for China**

### **4. Deliverables**

The urban transport carbon emissions specialist with international experience shall provide the following outputs:

Comments and suggestions for the review report on the carbon emission models and methodologies comparison in Europe, America including:

- The guidance on methodology identification & model building for China
- The carbon emissions statistics, monitoring, analysis and evaluation: International experiences and best practices from USA, European Union
- The latest international practices for urban transport energy consumption statistics
- The revised English reports for each study during each stage

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

The consulting service shall be implemented within 21 months. In the duration, the time input for the urban transport carbon emission Specialist with international experience is 4 person-months. The individual consultant shall keep close cooperation with the relevant agencies and staffs, to complete the tasks.

The urban transport carbon emission specialist with international experience shall have at least 15 years working experience in energy statistics, carbon emission calculating methodology and modelling with urban transport carbon emission. The consultant shall have more than 3 similar

assignments. The specialist who has good insights about China mainland urban transport issues is preferred.