

## Brief description of Hanoi Urban Transport Improvement Project and conceptual ideas of designing Air Quality Management Component (AQMC)

### A. Background of the Hanoi Urban Transport Project

The Hanoi Urban Transport Project (HUTP) is to assist Hanoi in implementing a sustainable strategy of city development and transport improvement with a focus on promoting public transport<sup>1</sup>. Total project costs are estimated in the range of US\$150-170 million. Broadly, the project will consist of three components:

- **Bus transport** (US\$35-40 million) to support reorganization the bus system; development of busways and bus priority on a selection of new and existing roads; and development of bus maintenance facilities, and secure ticketing systems.
- **Road infrastructure** ( US\$100-110 million) for construction of a section of Ring Road 2 (6 km) from Cau Say north to the dyke road (the site of the planned bridge at Nhat Tan) to facilitate development of the area West of West Lake, and ultimately North of Red River and Western extension of Hoang Quoc Viet Street (1.5 km).
- **Institutional strengthening.**(US\$15-20 million) for Transport safety (US\$5 million) major policy foci: reform of bus services, capacity building for integrated land use and transport development, and promotion of a PT oriented urban transport policy that covers issues such as parking, traffic control and vehicular restrictions; and **Air Quality Management Component (US\$ ~5 million);**

### B. Air Quality Management Component (AQMC)

Hanoi People’s Committee (HPC) has proposed a USD 5 million Air Quality Management Component (AQMC) to be led by DONRE with three main tasks listed below for HUTP. The overall scope of AQMC was based on inputs from the stakeholders<sup>2</sup> including donors involved in air quality management in Hanoi. During project preparation, details will be developed with the stakeholders and incorporated in the final project design.

| AQMC Tasks List  | Budget US\$(000) |              |              |                     |
|--|------------------|--------------|--------------|---------------------|
|  | Equipment        | TA+Misc.     | Total        | Source <sup>3</sup> |
| 1. Air Quality Management (Hardware and Technical Assistance)  |                  |              |              |                     |
| a. Air Quality Monitoring and Data management  | 250              | 250          | 500          |                     |
| b. Inventories, Data Analysis and Source Apportionment   | 100              | 400          | 500          |                     |
| c. Health Impact analysis, Policy and Control Strategy   | 100              | 400          | 500          |                     |
| d. Control Measures Implementation (e.g. Motorcycle I & M, road side emissions controls, and others) | 1000             | 1000         | 2,000        |                     |
| Sub Total for Task 1   | 1,450            | 2,050        | 3,500        |                     |
| 2. Public Awareness and participation  | 200              | 800          | 1,000        |                     |
| 3. Strategic Environmental Assessment and Planning   | 100              | 400          | 500          |                     |
| <b>TOTAL AQMC</b>  | <b>1,750</b>     | <b>3,250</b> | <b>5,000</b> |                     |

<sup>1</sup> World Bank TTL Mr. Shomik Raj Mehndiratta, Washington DC USA

<sup>2</sup> DONRE; MONRE; HPC; VEPA; the National Institute of Occupational and Environmental Health; Vietnam Register; CEETIA; the Committee on Air Quality created under the Clean Air Initiative, and involving other research institutions; Hanoi Institute of Technology; Vietnam Atomic Energy Commission; INEST – dispersion modeling; ADB - EMBARQ; TDSI; US AEP; Swiss Contact; NGOs; East-West Center, and others.

<sup>3</sup> World Bank or other donors (US AEP, Swisscontact, NILU, ADB, etc. or Government Agency

**Proposed Preliminary List of Tasks required in Technical Assistance Contract for designing AQM Component (International and Local consultants)**

1. Advise and assist DONRE and other agencies in executing the AQMC tasks as discussed below
2. Review current policies and regulations for vehicular, industrial, and areas pollution source and control to identify policies and regulations changes needed along with relevant agencies.
3. Assess present air quality monitoring and data collection efforts for adequacy and quality of information. Identify ways to improve current monitoring in light of the technology in consultation with relevant institutions.
4. Review current monitoring sites and assist in selection of other sites for future fixing monitoring stations.
5. Evaluate appropriateness of vehicle emissions control programs (inspection and maintenance – I & M requirements)
6. Identify and gather inputs required for emissions inventory data
7. Assess the institutional set up and training needs to implement the AQM tasks.
8. Review and discuss institutional arrangement for implementation of the proposed AQM tasks and how this is done in other countries with agencies.
9. Interact with stakeholders involved and provide technical inputs as needed and requested
10. Assist in the preparation of the technical specifications and bidding documents for the procurement (the air quality monitoring station and other tasks using the standards IDA guidelines for procurement of goods and services)
11. Assist with the preparations of public dissemination documents (e.g. note highlighting the threat to the public health of excess particulate emissions, practical options available and practiced in other Asian countries to reduce the emissions, etc.).