Accessibility Based Optimization of Educational Infrastructure Networks for Improving Resilience

Technical Guidance for Terms of Reference

Disclaimer: The following technical guidance for terms of references (ToR) have been shortened to reflect essential points (scope of work, deliverables, timeframe and qualification requirements) to be included in the ToR. Every organization can then adapt the guidance to their standard ToR template.

# Objective and Scope

The main objective of this work is to develop a systematic approach to assess and optimize accessibility of educational infrastructure networks in developing countries at risk from natural hazards. Specifically, this works aims to:

* Propose a systematic methodology to assess and optimize accessibility of educational infrastructure networks; and,
* Apply proposed methodology to the assessment of educational infrastructure networks in two cities in the country of the safe school engagement and propose solutions to improve the accessibility of those networks.

The work is divided in to the following two main activities:

1. Propose a systematic methodology to assess and optimize accessibility of educational infrastructure networks

* Review of relevant literature and tools available for the assessment of infrastructure networks
* Develop methodology to assess and optimize accessibility of educational infrastructure networks

1. Apply proposed methodology to the assessment of educational infrastructure networks in two cities in the country of the safe school engagement and propose solutions to improve the accessibility performance of those networks.

# Deliverables expected from the consultant

Successful completion of this project will include:

1. Technical report detailing the methodology to assess accessibility of educational infrastructure networks
2. Technical report detailing the methodology for optimization of educational network accessibility, and application results

**Timeframe**

The World Bank will need the services of the consultant within a period of 12 months. The consultant to be contracted will provide their services in order to carry out the activities described under these Terms of Reference as required by the task team.

**Qualifications**

The consultant to be contracted should meet the following requirements:

* **Principal investigator**
* PhD in relevant field for this consultancy
* More than 20 years of experience in modelling and optimization of transportation systems
* Relevant experience in supervision of research projects
* Fluent in English
* **Researcher**
* PhD in transport studies
* More than 5 years of experience in modelling and optimization of transportation systems
* Fluent in English