

Consultancy Services to Develop a Transport App for Smart Cities (Open for Nationals and Internationals)

Location:	Belize
Application Deadline :	19-Aug-22 (Midnight New York, USA)
Additional Category :	Sustainable Development and Poverty Reduction
Type of Contract :	Individual Contract
Post Level :	National/ International Consultant
Languages Required :	English
Starting Date : (date when the selected candidate is expected to start)	29- Aug-2022
Duration of Initial Contract :	45 working days over a period of 6 months
Expected Duration of Assignment :	45 working days over a period of 6 months

UNDP is committed to achieving workforce diversity in terms of gender, nationality and culture. Individuals from minority groups, indigenous groups and persons with disabilities are equally encouraged to apply. All applications will be treated with the strictest confidence.

UNDP does not tolerate sexual exploitation and abuse, any kind of harassment, including sexual harassment, and discrimination. All selected candidates will, therefore, undergo rigorous reference and background checks.

Background

UNDP Belize in partnership with the Government of Belize, Ministry of Energy and the Belize City Council, with funding from the European Union (EU) has launched a project on the decarbonization of Belize's Public transport sector through the introduction of electric vehicle technology. The EU funded E-Mobility project, pilots the inclusion of electric buses as a means of satisfying growing public transportation demands for sector efficiency and modernization. The Project focuses on demonstrating conditions and early experience for e-mobility integration into the national public transportation system, informing sector growth and investment planning. This 'Sustainable City' initiative offers innovative, smart and technical solutions for urban challenges ensuring inclusiveness of action and improving accessibility of services to the city's population.

In support of the emobility pilot, the project hopes to introduce "SMART" governance systems aimed to positively impact all residents of Belize City particularly vulnerable groups such as women and youth, PWDs and the elderly.

Focus areas: Initial focus will be on the aspects of smart people, smart living and smart mobility.

Aim: To offer innovative smart solutions for urban challenges through:

1. Bridging the digital divide by making citizens more tech savvy
2. Make travel safer and more convenient by improving public transport and introducing alternative, climate friendly travel options.
3. Enable evidence-based, data-driven decision making and inclusive governance

UNDP Belize is seeking a mobile application developer to develop the transport mobile application for Smart Cities. Within the framework of Smart Mobility, the project supports the development of a mobile application with real time tracking of electric buses and other participating vehicles. This is meant to address the current irregularity of city buses and the difficulty experienced by passengers to gauge bus wait time. The app is also meant to monitor seat availability and whether transportation option is accessible to persons with disabilities. This app will be launched through a smart cities app platform, but the information will also be displayed on screens staged in strategic areas in Belize City, as an interactive map for those who are unable to access the app through their phones. The initial phase of the app will focus on catering the need of the people regarding the irregularity of the bus schedule.

Objectives

The overall objective of the assignment is to develop:

- A user friendly Mobile Application
- Focus on Bus Schedule and support to a cashless public transport system

Duties and Responsibilities

In order to achieve the deliverables of the consultancy the contractor is required to undertake the following interrelated components:

- Review bus schedules, identifying gaps in schedule information
- Deliver a user friendly application which focuses on transportation schedules and supports Belize City transitioning to a cashless public transport system.
- App should be capable of providing real time updates on bus schedules and demonstrate potential for scaling up
- Provide training for required staffs at various levels who will be using the backend system
- Support the development of communication products related to the promotion of the App systems among users. If required do the promotional ads for the general public on how to use the system
- Provide user manual for various authorization
- Develop at least one round of prototype testing for the user-interface, convene a user group to gather feedback on the prototype and iterate based on feedback.
- Decide on and set up the queries involved at the different stages
- Features such as notification system, specification for target devices and localization (Geo tagging)
- Focus on simplicity, great performance and attractive design

Deliverables

Finished mobile application, with integrated feedback from field testing

Institutional Arrangement

The contractor would report to the Project Manager –EU/ UNDP Emobility Project and the Emobility Expert assigned to the project.

Duration of the Work

The expected duration of work is a total of 45 working days

Competencies

- Promoting ethics and integrity, creating organizational precedents;
- Building staff competence, creating an environment of creativity and innovation;
- Creating and promoting enabling environment for open communication;
- Creating an emotionally intelligent organization;
- Sharing knowledge across the organization and building a culture of knowledge sharing and learning;
- Fair and transparent decision making; calculated risk-taking.

Functional competencies

- Has a strong ability to transform qualitative and quantitative information into compelling visuals based on interactive web platforms
- Looks at experience critically, drawing lessons, and building them into the design of new approaches;
- Possesses strong analytical and research capabilities, including the ability to produce high quality reports and knowledge products;
- Knowledge of UNDP's mandate, systems and tools in the area of Smart Cities is an asset;
- Creates an environment that fosters innovation and innovative thinking;
- Makes the case for innovative ideas from the team with own supervisor.

Qualifications and Experience

Education

- Master's Degree or equivalent Advanced Degree in Software Engineering, Computer Science, information technology, web developer, graphic designing or other related disciplines

Experience

- Progressive experience of working in the development of mobile applications;
- Capacity to understand the needs for the app development,
- the ability to communicate openly and integrate all feedback which is provided;
- A proven track record of developing successful mobile applications;
- Working experience in developing graphically designed products for UNDP or other organizations from the UN system.
- Experience working in a fast-paced environment managing and meeting multiple deadlines and priorities

Language


- Fluency in English, both oral and written, is required.

Application Documents

- The application must include a letter of interest to undertake this task, the CV, Personal History Form (P11), and a financial proposal (indicating the daily fee (in USD) for the assignment).
- The applicant must also submit the reference letters from past supervisors/clients.
- Please combine all the documents into one single file, as the system will allow for only one document to be uploaded.
- We will only accept online applications

If you cannot access the links provided in this advertisement, please email to procurement.bz@undp.org

This TOR is approved by Ian King

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Deputy Resident Representative, Belize

Date 02-Aug-2022