

APPLICATION FORM for Smart City Project Formulation Study

1. Project digest

(1) **Project Title:** Feasibility Study on capacity building and fulfillment for project's promotion structure in order to realize Bang Sue Smart City

(2) **Name of the city:** Bangkok, Thailand

(3) **Category of the study:** C

*Choose one (or more, if item D and/or E included) from below

A) Masterplan (M/P) study

To formulate a masterplan for an entire smart city or a partial area of the target city, including the direction, comprehensive plan, and individual projects.

B) Pre-feasibility study

To determine priority among several alternatives on a particular field or part of an entire smart city project.

C) Feasibility study

To examine the feasibility or concrete details of an individual project composing the smart city project.

D) Capacity building program

To build the capacity of the stakeholders including government officials or municipal staff through training programs or seminars (may be done online).

E) Experimental implementation

To confirm applicability of a particular solution or technology for the smart city project in cooperation with Japanese solution provider(s).

(4) Justification of the Project

*Provide detailed information of the project regarding the items below.

- Present condition of the smart city project in the target city:

Bang Sue Smart City project is registered as one of the most important Smart City projects in Bangkok, Thailand. The project is mainly focused on implementation of the smart contents for urban development around Bang Sue Grand Station which is planned to newly open in November, 2021.

In 2016, Ministry of Transport of the Kingdom of Thailand (MOT) and State Railway of Thailand (SRT) have started the study on this project with the support of Ministry of Land, Infrastructure, Transport and Tourism of Japan (MLIT). Japan International Cooperation Agency (JICA) has also involved in the project since 2017, and has been dispatching JICA experts from Urban Renaissance Agency (UR). In addition, JICA have submitted their final report with the title of "The Study on Development of Smart City Concept for The Bang Sue Area in The Kingdom of Thailand" to MOT and SRT in 2020.

As the most recent actions, MOT has established the Bang Sue Steering Committee of which Permanent Secretary of MOT is assigned as the chairperson in July 2020, and SRT has established "SRT Asset" as AMC in September 2020. In addition, the Memorandum of Cooperation (MOC) between MOT, SRT, MLIT, and UR are signed in December 2020. The Kingdom of Thailand and Japan will be able to implement further cooperation based on this MOC.

- Sectoral development policy of the local government / municipality on the smart city project in the target city:

In Thailand, three cities such as Bangkok, Chonburi and Phuket are registered to the ASEAN Smart City Network (ASCN) as the most important Thailand's Smart City projects. Thailand's Smart City has been handled mainly by the leadership of the central government, and the Chief Smart City Officer (CSCO) for each city in ASCN are assigned from the central government as follows;

Bangkok: The Office of Transport and Traffic Policy and Planning (OTP)

Chonburi: Energy Policy and Planning Office (EPPO)

Phuket: Digital Economy Promotion Agency (DEPA)

Smart City benefits in Thailand are delivered to each city by applying to and acquiring the Smart City certification of DEPA, under the Ministry of Digital Economy and Society.

Urban development projects around Bang Sue Grand Station are regarded as the key projects of Smart City projects in Bangkok, and it is currently being promoted mainly by central government such as OTP and SRT under MOT in order to make Bang Sue Grand Station as the gateway of Bangkok in the future. The projects have been promoted mainly focused on the large-scale development with smart components. Bang Sue area is also positioned as a sub-center district in the comprehensive plan of the Bangkok Metropolitan Administration (BMA), which is scheduled to be formulated at the end of 2021, and the zoning of commercial areas is expected to be significantly extended.

- Outline of the Study:

Based on the above, MOT as the CSCO of Bangkok would like to propose to conduct following surveys by applying Smart JAMP.

"Feasibility Study on capacity building and fulfillment for project's promotion structure including development of project's promotion techniques, staffing solutions, and business planning, in order to realize Bang Sue Smart City as complex large-scale urban development projects with involving lots of stakeholders"

1. Developing a detailed financial mechanism for the cooperation between SRT, AMC, and SSC
2. Detailed examination on the business scope of SSC
3. Support for implementation of SSC, by reviewing the formulation of internal regulations of SRT and AMC
4. Support for implementation of SSC, by reviewing the formulation of AMC's business plan
5. Support for implementation of SSC, by reviewing the formulation of AMC's staffing plan
6. Explanation for relevant organizations in order to realize 1. to 5. above

- Purpose (short-term objective) of the Study:

***A path to improving urban services through digital solutions like robotics, IoT, AI or big data, is expected.**

1. To realize the Smart City Master Plan which has been finalized by JICA in January 2020 which includes the implementation of smart contents
2. To examine implementation plans or initial actions for the promotion of phased development
3. To start preparatory actions by SRT and AMC for driving Smart City projects forward
4. To refine SSC's business contents for making Smart City project feasible etc.

- Smart City supported by Japan ASEAN Mutual Partnership -
Smart JAMP

Enclosure No. 2

- Goal (long-term objective) of the Study or entire project:

*The applicant may choose from two layers of the goal of the Study including a) an entire urban development goal with a nexus of concrete construction, transport and infrastructure projects with ICT solutions, or b) a specific goal with a certain solution or technology in a particular field such as public health, disaster risk reduction, urban safety and security, mobility service (e.g. MaaS), energy solution, circular economy, advanced administrative services like public facility management or tourism promotion, as well as other fields like education, agriculture or supply chain management.

Realizing the operation of Smart City based on the above Master Plan with applying Japanese knowledge on energy, mobility, and environment etc.

- Other relevant projects, if any.

Redline Train Project (funded by Japan's ODA)
http://www.bangsue-rangsitredline.com/index_en.php