

Project for Disaster and Climate Change Countermeasures Using Earth Observation Satellite (I)

Background and Necessity

Vietnam is a narrow and long country lying along a north/south axis. The Country has multitudinous climatic and geological conditions. Therefore, Vietnam has a relatively higher risk of the incidence of natural disasters in the world. Particularly, typhoons and floods and other hydrological events are serious problems. Losses from these natural disasters are nearly 1.5% of Vietnam's gross domestic product. Additionally, more than 70 percent of the population lives in regions vulnerable to storm and flood damage. It is, therefore, an urgent issue to take measures for emergency disaster relief and disaster damage mitigation and prevention from the perspectives of saving human lives and preventing losses of socioeconomic capital.

Given such circumstances, the formulation of policies, systems, and action plans based on scientific evidence is given serious consideration in Vietnam, and it is recognized that creation of a continuous earth observation satellite system is essential to conduct monitoring, forecasting, and impact evaluation of climate change. Currently, the satellite data purchased from foreign countries are used for disaster monitoring and forest management, but the data is not fully utilized due to time limitation and expensive data costs. Therefore, in order to obtain the satellite data timely and accurately, it is an urgent issue to introduce the equipment and technology to design, produce and operate an earth observation satellite in Vietnam.

Objectives and Summary

The objective of the Project is to upgrade and establish Vietnam's disaster and climate change planning, mitigation, and response by providing earth observation satellites, equipment, and facilities for satellite development and utilization, and, capacity development for operation and maintenance of the facilities and equipment, thereby contributing to improvements of the living and social conditions in Vietnam.

Loan funds will be allocated to the procurement of a global observation satellite, the construction of support facilities, the installment of equipment, the training of personnel, consulting services and the like.

The Special Term for Economic Partnership will apply to this project, and it is expected that Japanese technology will be used to advance the satellite-related technology of Vietnam.

Executing Agency

Vietnam National Satellite Center

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Planned Implementation Schedule

- (i) Completion of project: March 2021 (with completion of the orbit test for the second global observation satellite to be procured with the Project)

- (ii) Consulting services (including construction supervision):
Issuing of letters of invitation: October 2012
- (iii) Tender announcement for initial procurement package for international competitive bidding on project construction:
Procurement package title: Main Package 1 (seven package procurements are planned for this project)
Release date: August 2012

JICA Contact Information

The contact information for inquiries on the procurement schedule is as follows:

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