

## Abstract

Nowadays, arts and cultural educational system with contents of arts and culture in Thailand are minimal in quantity. However, arts gallery construction projects and related arts educational supports are continuously increasing. Arts gallery model, in terms of planning and management potential are too scarce because knowledge proceeding of arts and art gallery architecture are not introduced to the public. Thus, it is needed to undertake research on basis of social needs related to Bangkok contemporary art gallery. Samples of art galleries in Thailand were investigated through questionnaires method in searching for the needs of users regarding functions, activities and components that should be included in the proposed art gallery. The study also looked into the probability of the art gallery as the center of art in Bangkok, in accordance with the government's policy.

The research examined art galleries in Thailand and abroad, related literatures concerning theories and practices in order to propose international standard design guidelines and gallery management for setting up design program of Bangkok contemporary art gallery. These project's details of the organization and management method, project feasibility, building's area allocation and functions, outdoor-indoor space planning.

The next procedure was to set up an experimental project and building design, which attempt to be practical. The major criteria of art gallery design are site selection, site analysis, building regulation analysis which depend on the physical characters of the building, site conditions design concept, relationship between building components and usage, organization and management system, and income management. In addition, the study explored details of various building design regarding, circulation system, building's core system, main hall space, access and exit system, open space, building's envelope, exhibition

arrangement, including artificial lighting and natural lighting. Further recommendations focused on supporting techniques such as art gallery's improvement and expansion, building's construction system, force affecting building structure, lighting system, electronic system, air-conditioning system, sound system and safety measurement, fire exit system, elevator system, container elevator and interior design, which are practically useful for designers.

In the end, the project tended on contemporary architecture focused on the activities that serving the art gallery's concept. The Bangkok Contemporary Art is proposed to be located on the intersection of Narativatratchanakarin road and Sathorn road. The project is designed as a nine story reinforced concrete building, six floors above ground level and three floors underneath. The approximate total area is 15,800 square meters.

The outcome of the project was finally examined and evaluated by various experts ranging from architects, curators and artists. These evaluations are useful for specifying the most practical methods and design guidelines, which aim to achieve the goal of being high performance international standard art gallery.