

ABSTRACT

Research Title : Study of Guideline to Outdoor Space Development and Traffic
for decrease Protestors Trouble in Bangkok

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In every political demonstration, it always causes the attack between officers and demonstrators and enclosure of official areas, resulting to invasion of demonstrators in important areas and damages of public assets and official establishments. In case such situations are severe, it may cause asset damages and setting fire to buildings. Government officials of each agency have prepared all kinds of preventive actions. For official buildings and locations nowadays, the design and construction is in accordance with the rules of Building Control Act. However, to support or prevent political demonstrations is not mentioned in the details of such law.

In addition, the mass rally of protestors also affects transportation and movement of demonstrators. It was found that they are more seriously severe and there are increasingly problems, especially in 2015. At that time, there was an attempt to enclose important economic centers and roads, participate in the mass rally to obstruct land transportation, transportation transit and major public areas in Bangkok, causing the physical, social and economic effects.

This research aims to obtain the model of building surroundings improvement and guidelines on evacuating citizen from areas enclosed by political demonstrators.

According to the research, it was found that information from the sub-project 1 on building surroundings improvement for preventing invasion of political demonstrators in Bangkok, Case Study: Chulalongkorn Hospital can be summarized the guidelines on physical improvement of areas as follows; 1) solving problems of fences and building access by increasing bushes with thorns or branches along the fences in order to obstruct the climbing space and providing strong and durable wooden or steel lath to any open channels of the buildings, which should blend with the outdoor architecture, 2) solving problems of 5-meter scenic radiation by

increasing plants with thorns climbing on trunks of big trees located around the building, such as *Thunbergia Fragrans*, and cutting off lower branches, 3) solving physical problems of downstairs and building's open surface by installing safety film and wooden or steel lath, 4) solving problems of land transportation by providing clear route lines and signs, increasing yellow light signals at any risky areas or common areas for pedestrians, providing key card for building access and fence lines or guard rails for preventing any climbing to buildings.

Regarding the sub-project 2 on application of independent transport network for creating guidelines on evacuating citizens from movement and traffic areas enclosed by political demonstrators in Bangkok. The findings were found that the most frequent route used for the movement and traffic enclosure in Bangkok is Phra Nakhon District. Generally, it occurs on the route where there are many alleys and it has high significance value of the district. It is also the main road in the sub-district. Regarding the radiation area of Chulalongkorn Hospital, there was the area for movement and traffic enclosure of political demonstrators around Phayathai Road, Suriwongse Road, Ratdamri Road and Si Phraya Road, which their high significance values are in the medium to high level. Therefore, during the severe situations, it should be avoided the routes with high value of the district, showing in red and orange routes, and should select the routes with low value of the district, such as roads with alleys and lanes, showing in green and yellow routes.