

## C115237 : MAJOR CIVIL ENGINEER

KEY WORD : TRIP GENERATION, SPORT COMPLEX, BANGKOK

PONGTAVEE LERTPANYAVIT : TRIP GENERATION MODEL FOR SPORT COMPLEX IN BANGKOK METROPOLIS. THESIS ADVISOR : ASSOC. PROF. ANUKALYA ISRASENA NA AYUDHYA, THESIS CO-ADVISOR : ASSOC. PROF. DR. BOONSOM LERDHIRUNWONG, 268 pp. ISBN 974-581-014-2

This research is the study on travel characteristics, travel behaviors, and analytical of functional relationship between travel pattern and physical characteristics of sport complex. The main purpose is to develop Trip Generation Models in order to used for planning of traffic operation in and around the vicinity area of which the National Stadium was choosen as a subject of the study.

Trip Generation Models are based on Multiple Regression Analysis. The models consist of :

1. Model for football match

$$\log \text{TRIP} = 3.052 + 0.785 \log \text{NOM} + 1.727 \log \text{NOF} - 0.673\text{L3}$$

2. Model for other matches

$$\log \text{TRIP} = 3.164 + 0.102\text{NOM} - 0.577\text{L3} + 0.307\text{ATH}$$

Where TRIP is a number of trips, NOM is number of matches per league, NOF is level of admission fee, L3 is level of interest : less interest, ATH is sport : athletic.