Abstract

Developing housing projects can be suspended, if any problem occurs during the infrastructure construction period. Selecting potential contractors can help mitigate problems. This research focused on finding the criteria and their appropriate weights for selection of the contractors from the frequency and the degree of severity of the problems occurred during infrastructure construction from 17 housing projects that were classified according to their prices and housing types from 7 companies in Bangkok and Bangkok vicinities, by modified Analytical Hierarchy Process (modified AHP). It was found that 8 criteria, accompanied by their weights, are 1) project management skill 24.74%, 2) experience 16.29%, 3) financial wealth 14.07%, 4) current projects in hand 13.78%, 5) construction technique 12.67%, 6) key staff 6.86%, 7) past projects 5.83%, and 8) relationship with suppliers 5.77%. The research results can be used to select and rank contractors for infrastructure construction for housing projects especially in single houses and townhouse in Bangkok and Bangkok vicinities.