Evaluation of the development of pocket parks with the approach of the participation of citizens in urban neighborhoods (Case study: Zibashahr and Amirkabir sectors in Zanjan city)

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Extended Abstract

Objective: Green spaces and parks should certainly be considered as one of the most fundamental factors in sustainability of natural and human life; if properly planned, they will have a beneficial impact on health of human body and soul. However, the optimal allocation of land to green space in cities is one of the most important tasks of urban planners. This study proposed the approach of developing pocket parks through citizen participation as one of the most effective ways to compensate for the lack of green space in urban areas. Zanjan has the capacity and potential to create green space in general and pocket parks in particular; it can increase the development of pocket parks by benefiting from citizens' participation. These parks are missing in hierarchy of Zanjan urban parks; they can play an effective role in relaxation, leisure, and play of citizens. The purpose of urban planning is to regulate urban spaces in terms of access to urban facilities and services and proper distribution of different urban uses. The access to urban green space tailored to needs and participation of local people can play a major role in sustainability of Zanjan's neighborhoods.

Methods: This was applied descriptive-analytical study. The library study and field observation (structured interview using questionnaire) was conducted for collecting the data. The study was conducted in Zibashahr and Amir Kabir (population= 13907). The sample size was determined to be 374 people. Due to similar population at two regions, 187 questionnaires were distributed at each region. This study used the CVR model to evaluate the validity of questionnaire. According to CVR, the validity should be above 0.85; the validity of questionnaire was determined to be 89% which was completely valid. To determine the reliability, the Cronbach's alpha coefficient was evaluated to be 0.835; this indicated high reliability of questionnaire. Using SPSS software, the one sample t-test, ANOVA, and path analysis method were used for analyzing the data.

Results: The findings showed that the impact coefficient of indices on development of pocket parks in Zabashahr and Amir Kabir neighborhoods is equal to 26.98 and 25.5, respectively. On the other hand, according to path analysis, the NGO component (total effect= 0.507) and sense of belonging (total effect= 0.432) had the highest impact on development of pocket parks in study area. The path analysis was used to determine the causal relationship between independent variables and function. According to findings, the total effect of NGO, feeling of belonging, trust, motivation, and feeling of security components was 0.507%, 0.432, 0.429, 0.348, and 0.317, respectively. Given that these values were between 0.3 and 0.6, it was stated that the impact of citizen participation components on development of pocket parks was higher than desired. The necessary platforms for creating modern urban land-use tailored with sustainable

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development and quality of life were provided by people's willingness to participate, especially in Zibashahr neighborhood. Meanwhile, the NGO index (total effect= 0.507, direct effect= 0.410) had the most influence on formation of this culture and intellect than other indices. Therefore, it seems that the citizen participation should be considered in physical planning and urban planning in residential neighborhoods around the city center. As far as possible, the local councilors should participate in the decision-making process.

Conclusion: The findings showed that the contribution in development of Zibashahr and Amir Kabir areas may be a source of reassurance for development of pocket parks. Considering the findings on development of pocket parks and their interaction with social identity of citizens in Amir Kabir and Zibashahr neighborhoods, it was acknowledged that the development of pocket parks may provide various opportunities for joy of citizens. The pocket parks will provide favorable conditions for formation of Neighborhood Spatial Organization and consequently, they will affect the social life and citizen mentality of neighborhoods. Considering the social, cultural, and identity crises in neighborhoods in Zanjan, therefore, the pocket parks may be used as communal spaces to take a big step toward resolving some of these crises and redefining identity in neighborhoods.

Keywords: Sprawl, spatial development pattern, land use, Qaemshahr

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