

Kosambi Green Lane Park, West Jakarta, Indonesia: Urban Recreation and Ecology Center

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Abstract. This research aims to investigate the concrete impact of the Kosambi Green Lane Park on the ecology and comfort of the surrounding environment. Green lane parks are the main focus for balancing urban growth and environmental preservation in sustainable urban development. Descriptive methods are used to provide an in-depth overview of the park's facilities and level of accessibility and analyze visitors' preferences and needs for existing facilities. The research results show that Kosambi Green Route Park offers a variety of facilities, such as a jogging track, huts, and children's play areas, which are visitors' favorites. This park's access is good via private vehicles and public transportation, with supporting infrastructure that supports visitor comfort. Visitor preferences highlight the need for better care and maintenance of existing facilities and requests for further development, such as the addition of sports facilities and further green areas for picnics. The positive impacts felt by local communities include improved physical and social well-being and contributions to the surrounding environment through improved air quality and environmental awareness. Kosambi Green Lane Park is a successful example of the green lane concept in sustainable urban development. Still, there needs to be continuous attention to maintenance and development so that the benefits can continue to be felt in the long term.

Keywords: green lane parks, sustainable urban development, social and ecological impacts, visitor preferences

Introduction

Green lane is an essential concept in urban development that increases the importance of open space to achieve ecological balance and environmental comfort (Wuisang et al., 2023). With the main objectives of creating environmental harmony, maintaining soil conservation, improving air absorption, providing protection to particular areas, and refreshing the air, green lane are increasingly becoming a highlight in modern urban planning (Kasim et al., 2019). It is noted that this phenomenon occurs not only in other cities worldwide (Cellindita et al., 2021). Cities increasingly realize the importance of sustainable open space to balance urban ecosystems. One concrete example of implementing this green lane concept is the Kosambi Green Lane Park in Duri Kosambi, Cengkareng, West Jakarta. Located in the middle of the urban bustle, this park is an attractive green oasis for residents. With the various facilities, this park is an ordinary recreation area, a gathering place for families, and a safe play area for children. The incident illustrates how green open spaces can perfectly integrate in a dense urban context.

Kosambi Green Lane Park is a green area for exercising or relaxing and a symbol of commitment to creating a balance between urban development and environmental conservation. In an increasingly urbanized context, parks such as these provide space for recreational activities and reduce the negative impacts of the urban environment. Thus, this park becomes a viable model for developing green open spaces in future urban areas. With increasing awareness of the importance of the environment, the community increasingly appreciates and pays attention to the role of green lane parks such as the Kosambi Green Lane Park. Its presence provides direct benefits for visitors and inspires the development of green open spaces in other places. As a center for social and ecological activities, the park is integral

to modern, sustainable urban identity. Therefore, it is essential to continue to develop and maintain parks like this so that future generations can feel the benefits.

Although the green lane concept has become a highlight in modern urban planning and has been implemented in various cities worldwide, several aspects still need further study. One of them is a deeper understanding of the concrete impact of green lane parks, such as Kosambi Green Lane Park, on the ecological balance and comfort of the surrounding environment. Previous research may have addressed the general environmental and social benefits of green lane parks. However, there is still a need for a more detailed analysis of the specific impacts that such parks have, especially in dense urban contexts. There is a need to explore further how green lane parks can influence land use patterns and overall urban dynamics. In this case, research can focus on evaluating the effects of integrating green lane parks such as the Kosambi Green Lane Park in urban spatial planning and its impact on mitigating environmental impacts resulting from urban development.

This research is of paramount importance as it fills a crucial knowledge gap by delving deeper into the tangible impact of the Kosambi Green Lane Park on the ecology and comfort of the surrounding environment. Through a comprehensive and interdisciplinary approach, this research will illuminate the ecological, social, and economic benefits provided by the Green Lane Park, and potentially unveil its positive impact on the well-being of local communities. Moreover, this research aims to shed new light on how the integration of green lane parks in urban planning can shape overall urban dynamics. By considering factors such as land use patterns, mobility, and environmental quality, this research strives to enhance our understanding of the contribution of green lane parks to sustainable urban development. Therefore, it is anticipated that this research will significantly advance our comprehension of the role and impact of green lane parks like Kosambi Green Lane Park in future sustainable urban development.

Literature Review

Green Lane Park

Green lane parks have emerged as a beacon of hope in sustainable urban development strategies, policy measures advocating the establishment of green lane parks are at the core of the city's endeavors to balance urban growth and preserve the natural environment (Maudina & Kencono, 2022). These parks are not merely recreational spaces for city dwellers, but also serve as a crucial element in maintaining the sustainability of urban ecosystems, offering green open space, and acting as carbon absorbers and habitat protectors for various types of flora and fauna (Aram, 2024). Green lane parks have also been proven to play a pivotal role in mitigating the impact of global warming by absorbing carbon dioxide. By fostering an environment that supports biodiversity, these parks not only help maintain the equilibrium of the ecosystem, but also bolster the resilience of the urban environment as a whole (Chawla, 2020). Through such initiatives, cities can transform their urban landscape into greener, healthier and more sustainable havens for their residents and future generations (Cellindita et al., 2021).

Benefits of Green Lane Park

Green open spaces such as green lane parks provide broad benefits, covering ecological, social, and economic aspects important for modern cities. Ecologically, green lane parks act as a buffer for the urban environment by providing habitat for various species of flora and fauna and functioning as a carbon sink that helps reduce the impact of global warming (Pinceti & Gearin, 2005). Apart from that, green lane parks also improve city air quality by reducing air pollution and providing oxygen through the photosynthesis process of green plants. Socially, the existence of green lane parks provides open space that the wider community can enjoy.

These parks facilitate social interaction between city residents, creating places for recreation, sports, and community events (Addas, 2023). In addition, green lane parks also improve residents' mental and physical well-being by providing a place to relax and relieve stress. From an economic perspective, green lane parks increase the value of surrounding properties and create economic opportunities through tourism and related businesses, such as cafes, souvenir shops, and recreational equipment services. Thus, green lane parks provide essential ecological benefits and improve social and economic life in urban environments (Murtini et al., 2019).

Green Lane Park Facilities

The facilities provided in green lane parks significantly impact the welfare of the people who visit them. Facilities such as children's play areas, healthy trails, and sports fields provide opportunities for wholesome physical activity and encourage positive social interactions among visitors (Floyd et al., 2011). In addition, facilities such as open spaces for picnics, seating areas, and cafes create a comfortable and friendly environment for families and individuals to relax and enjoy their free time. The impact on people's welfare is also visible in mental and emotional aspects (Flowers et al., 2019). Green lane parks are often an escape from the hustle and bustle of urban life, providing a calming environment and connecting people with nature. Walking along a greenway, sitting under a tree, or enjoying the greenery can help reduce stress and improve mental well-being. Thus, the Green Lane Park facilities meet the community's physical and social needs and positively contribute to their overall well-being (Aisyianita et al., 2022).

Research Methods

This research adopts a descriptive method to provide an in-depth picture of the facilities and level of accessibility of the Kosambi Green Lane Park. Apart from that, this research also aims to analyze visitors' preferences and needs for the facilities in the park. To achieve this goal, data was collected through several approaches, including direct on-site observations to observe visitors' use of facilities, interviews with visitors to understand their preferences and expectations for available facilities, and related analyses to gain additional insight into the park's history and management. With this comprehensive approach, this research aims to provide a holistic understanding of the Kosambi Green Lane Park and how its use can be improved to meet the needs and desires of visitors.

Results and Discussion

Various facilities are available for visitors at Kosambi Green Lane Park, including a jogging track that circles the entire park area, huts available for shelter, and various park benches scattered throughout the park for resting places. Not only that, this park also offers a children's play area equipped with games such as slides, seesaws, and swings, adding to the attraction for families who come with their children. Facilities at Kosambi Green Lane Park provide a complete experience for visitors. This park offers space for various recreational activities, from running on the jogging track to relaxing in the huts. A children's play area with multiple games also makes the park famous for families, allowing children to play while enjoying fresh air in a safe and fun environment.



Figure 1. Kosambi Green Lane Park

Source: Disway.id (2022)



Figure 2. Children's playground at Kosambi Green Lane Park

Source: Beritajakarta.id (2022)

Kosambi Green Lane Park can be easily reached either via private vehicles or public transportation. The findings show that the roads surrounding the park provide easy access for car or motorbike users, while the presence of public transport stops makes it most convenient for visitors who choose to use buses or other modes of public transport. In addition, the available parking facilities also support accessibility for visitors using private vehicles. All of this aims to increase comfort and convenience for those who want to enjoy the beauty of the park. Supporting infrastructure for the Kosambi Green Lane Park, such as transportation routes and parking facilities, increases the attractiveness and accessibility of the park for the community. General findings indicate that the arrangement of roads around the park has been well designed to facilitate access for private vehicle users, while the presence of nearby transport stops provides a convenient option for visitors who choose to use public transport. With adequate parking facilities, visitors using private vehicles can easily access and enjoy the park without problems. All of this is an important step in making parks open spaces that are friendly and easily accessible to all levels of society.

Visitor preferences for facilities at the Kosambi Green Lane Park show an interesting trend. Most visitors expressed their liking for the variety of facilities available, with the jogging track being the main favorite among the options available. However, there are several aspects that are a highlight for some visitors. They highlighted the need for better care and maintenance of existing facilities. For example, some expressed a desire to repair damaged jogging paths or replace worn children's games. This shows the importance of continuing to improve and improve the quality of existing facilities to better meet the needs and expectations of visitors.

In this way, Kosambi Green Lane Park can continue to be a destination that is popular with the public by providing facilities that are maintained and regularly improved.

The need for further development of the Kosambi Green Lane Park is a significant concern for the government and local community. Suggestions put forward by visitors include improving sports facilities such as basketball courts or small football pitches, allowing for a greater variety of activities that appeal to visitors of different age groups. Additionally, increasing green areas for picnics and other recreational activities will provide broader and more comfortable spaces for people to relax and enjoy nature. Requests for increased security and lighting at night are also important things that need to be considered to increase visitor comfort and safety and encourage the use of parks at night to improve social life and overall community welfare.

The positive impact felt by the local community is an aspect that must be addressed when assessing the importance of developing the Kosambi Green Lane Park. Many visitors state that the existence of this park has provided significant benefits for their welfare and social life. They feel that this park is not just a green space but also a fun gathering place with family and friends, thus creating strong social ties in the community. Apart from that, parks are also considered a refreshing place to escape from the hustle and bustle of the city, providing visitors with the opportunity to enjoy the tranquility of nature amid busy urban activities.

Several residents highlighted the critical role of the Kosambi Green Lane Park as a place for physical activity and maintaining health. Sports facilities such as jogging tracks encourage them to maintain a regular exercise routine, which directly contributes to improving their physical well-being. This emphasizes the critical role of city parks in improving the health and welfare of society. Kosambi Green Lane Park is a refreshing green open space and a center for local residents' physical activity. With adequate sports facilities, such as a jogging track, this park inspires many people to maintain their health by exercising regularly. This phenomenon reflects that city parks support a healthy lifestyle and increase fitness in dense urban communities.

Kosambi Green Lane Park is an open space that provides physical and social benefits for the community and has a significant positive impact on the surrounding environment. One of the main factors that influence this is the large green area available and the excellent maintenance of this park. With careful management and plants that thrive in it, this garden functions as a natural filter for air pollution, improving air quality in the region. As a result, the surrounding environment becomes cleaner and healthier for residents, creating an environment that supports quality living. The existence of the Kosambi Green Lane Park also contributes to maintaining the sustainability of the surrounding environment. The park beautifies the area by promoting the healthy growth of greenery and providing a place for positive social interaction. It creates awareness of the importance of preserving nature in the community. Thus, this park is not only an asset for residents' physical and mental well-being but also a symbol of commitment to sustainable development and environmental preservation.

This research comprehensively describes the vital role of the Kosambi Green Lane Park in meeting various recreation, sports, and relaxation needs for the local community. By providing complete facilities and paying attention to good accessibility, this park has succeeded in becoming a center of activity that not only improves city life but also has a significant positive impact on the welfare of its visitors. However, the research also highlights several areas where further maintenance and development are needed so that the Kosambi Green Lane Park can continue to be a valuable asset for the local community. By focusing on proper maintenance and facility improvements, the park can continue to be welcoming and inspiring for all who enjoy it.

Conclusion

Kosambi Green Lane Park is a successful example of the green lane concept as a green open space in urban areas. Complete facilities and good accessibility make this park a popular destination for the people of West Jakarta for recreation with family and children. Maintenance and further development are essential so the benefits can continue to be felt in the long term. This includes performing routine maintenance to prevent damage and quality degradation, developing innovations to improve efficiency, performance, and safety, and investing in education and training to increase understanding of best practices. In addition, effective risk management, community involvement, attention to environmental aspects, and regular evaluation and monitoring are also critical. By paying attention to these matters and committing to ongoing maintenance and development, the benefits can continue to be felt in the long term.

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