

Improvement The Facilities and Infrastructure of Serengseng City Forest, Jakarta

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Abstract

The Serengseng city forest is in the center of West Jakarta. This forest is a green space used as a recreational place by the surrounding community amid the hustle and bustle of Jakarta city. Community Development Binus from the civil engineering department tried to help the Forestry Service to improve The Srengseng city forest. Some improvements to existing supporting facilities are needed to enhance the comfort of visitors.

Some improvements that can be made are provision the location with maps, road directions, reflectors along the walking paths, shelters, lights, and park benches.

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A. INTRODUCTION

Jakarta city is a pendant city of residents filled with high-rise buildings. Green open areas are difficult to find in Jakarta. The Srengseng city forest is one of the remaining green areas of West Jakarta. This forest covers an area of 15 hectares, originating from a landfill that had been converted into an urban forest.

The Srengseng city forest is managed by the forest service. Residents spend time here for recreation. The Sarengseng city forest has children's playgrounds, jogging tracks, an amphitheater, rock-climbing facilities, and lakes that are often used for fishing. In addition, this forest is a rainfed and water catchment area, research object, and education area of flora and fauna.

In general, facilities and infrastructure are the support system to deliver public service successfully. If both were unavailable, all activities could not achieve the expected results according

to the plan. Facilities are all types of equipment/work equipment that function as the main/auxiliary tool to implement the work. With supporting public space infrastructure, the public will be interested and comfortable visiting the public open space. The facilities and infrastructure help the community meet their needs while visiting public open space.

City parks should be equipped with the following facilities:

- 1) Active recreational facilities such as areas for swimming, cycling, and walking.
- 2) The park's location should be easily accessible to residents.
- 3) The park should be accessible on foot or by cycling.

A good park/open space is one that can fulfill the following functions:

- 1) Ecological: water catchment area or city lungs
- 2) Educational / Socio-Cultural: playground, sports playing wildlife.
- 3) Aesthetics: beauty, cleanliness, the comfort of the city
- 4) Economy: health of the environment and residents, the destination of park city tourism as a recreational place

The main function of facilities and infrastructure is to make it easier and provide comfort for visitors. The public open space intends as a recreational arena for city residents that must at least provide the following facilities:

- 1) Trees, Plants, and Garden Ornaments

In addition to functioning as shade, trees also function as air filters, oxygen providers, and places for birds.

2) Pedestrian (Pedestrian Path)

Many park users are pedestrians, so pedestrians should feel as comfortable as possible. The criteria for pedestrian comfort can be seen from the smoothness of the road so that people can walk without fear of overturning or falling, spacious enough that people can walk without crowding, there is road safety, and it is convenient for disabled people, seniors, and young children.

3) Park Bench or Comfortable Sitting

After walking, playing, or jogging, it is very comfortable to sit back and relax on a comfortable bench while enjoying the beautiful forest. Therefore, the park bench element must exist if the park is indeed functioning as a recreational park.

4) Gazebo

This gazebo is intended for rest and shelter in case it rains. Gazebos do not need to be made too luxurious, but they are comfortable enough, and safe.

5) Children Playground

Playgrounds for children aged 3-10 years should be spacious and covered with green grass for convenience. A sandbox should provide for children to play with sand. On the side of the playground can be provided a seat for rest.

6) Sports Arena

7) Toilet / WC

The provision of toilets must be distinguished between men's and women's toilets and always be kept clean.

8) Aqueducts

Waterways or sewers function to collect rainwater and drain it into the sewer so the park never flooded.

9) Trash Can

The provision of trash cans is very important, as an effort to maintain the cleanliness and comfort of the park environment to keep it beautiful.

10) Park Lights

This park lamp functions as lighting at night as well as a park element that adds to the beauty of the park.

B. METHOD

This community development is carried out continuously in several stages of visits. Last year, Binus successfully made a sink procurement. This year's PKM activity was carried out in November 2022, with preliminary observations carried out in the field. The team involved consists of lecturers and students from the Binus civil engineering and architecture study program.

C. RESULT AND DISCUSSION

I obtained from the results of direct visits and observations, obtained that the Srengseng city forest has fulfilled several necessary facilities, such as trash cans, waterways, sports arenas, playgrounds, pedestrians, and trees.



Picture 1. Binus Visited to the Srengseng City Forest



Picture 2. Binus Visited to the Srengseng City Forest



Picture 3. Existing Facilities



Picture 4. Existing Facilities

Improved facilitation needs to do with adding lighting lamps. So far, the lights are only found on the main road. Reflectors can also add as roadside guides. The procurement of energy is planned to find sponsors who provide light panels. Shelter repairs also need to be carried out, remembering the small size of the shelter and not being well maintained, and the need to add comfortable benches. In addition, it is necessary to add a location plan and directions so that visitors do not get lost and can find the exit quickly during emergency situations. This proposed improvement will be followed up as a continuation of the community development program in the next semester.



Picture 5. No street lighting.



Picture 6. Shelters that need to be renovated



Picture 7. Less road signs

D. CONCLUSION

The Srengseng city forest is a green area in the middle of West Jakarta, which is used as a recreational area, and water absorption land. From the observations made, there are several proposals for infrastructure improvement activities submitted by Binus against the Srengseng city forest manager, including the provision of location maps, road directions, reflectors along the way, several shelters, seating in the amphitheater, lights, and park benches. This proposal will be the basis for further PKM activities, working with managers and sponsors to be able to improve the area to be more organized and comfortable for visitors.

E. REFERENCES

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