

# Design Of Environmentally Friendly Traditional Village Tourism Transportation In Sidan Village

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**Abstract.** Bali has developed tourism centered around Balinese culture, deeply influenced by Hindu teachings and the Tri Hita Karana philosophy. The Provincial Government of Bali emphasizes the importance of community involvement in tourism development, with the hope of enhancing the well-being of the local population and boosting the development of local human resources. One of the concepts currently being developed is the establishment of Village Tourism. Village tourism is an example of sustainable development, aligning with the current global agenda. The concept is expected to provide diverse attractions from the common mass tourism trend, it is considered an alternative form of tourism that offers a personalized experience to each visitor and is capable of stimulating the local economy. It serves as one of the solutions to reduce poverty through the employment of local residents. Sidan Village in Gianyar Regency is one of the emerging village tourism destinations. Sidan Village is actively working on improving the tourism infrastructure. Kissidan Ecohills, planned as the gateway to Sidan Village Tourism, is currently facing several issues, as conveyed by the village head. These issues include parking development, the establishment of a shuttle terminal, and a rest area for drivers. These challenges are identified as factors hindering the integration of Sidan Village Tourism and diminishing the comfort of visitors to Sidan Village. To address these issues, this project focuses on designing a concept for the parking area, shuttle terminal, and driver rest area, all centered around Kissidan Ecohills.

**Keywords:** Village Tourism, Infrastructure, Sustainable Development;

## 1. Introduction

Sidan Village has been a tourist destination for a decade, but it only received official tourist village status in 2019 with the publication of Gianyar Regent Regulation No. 707/E-02/HK/2019 regarding Tourism Villages in Gianyar Regency. On the basis of this regulation, the community of Sidan Village intends to develop tourism activities in the village until it achieves the status of a pilot tourism village. Typically, a tourist village will have Typical foods, agricultural systems, and social systems also colour a tourist village's environment. Additionally, tourist village areas are required to have various amenities to support their status as tourist destinations. These amenities will facilitate tourism activities for visitors to the tourist village [1], [2]. As described previously, Sidan Tourism Village is currently developing tourism products aggressively by implementing the concept of sustainable tourism and applying the concept of ecotourism through the development of Kissidan Eco Hills. Nonetheless, there are still a number of things that need to be optimized, particularly with regard

to the infrastructure arrangements of tourist destinations. Community service as part of the "Traditional Transportation Design of Sidan Eco Tourism Village" initiative in collaboration with UCSI University, Malaysia is intended to address the following issues: Organisation of Available Parking Spots The first objective is to enhance the infrastructure for parking space arrangement in Sidan Tourism Village. This is done to maximise the use of available land, provide convenience for visitors using private transportation, and keep the parking area secure and orderly. Thus, we intend to increase Sidan Tourism Village's appeal as a tourist destination. Construction of a Shuttle Terminal for Sidan Tourism Village Area Integration The second objective is to provide a shuttle terminal that serves as a transportation hub between Sidan Tourism Village and the atrium or main entrance. This terminal will facilitate the efficient transit of visitors between bus, train, and local transportation. This is intended to increase access to Sidan Tourism Village and decrease traffic congestion in the area. Development of Driver Rest Area The third objective is to provide travellers with comfortable rest area amenities. This is intended to improve the welfare of chauffeurs who spend a considerable amount of time travelling to Sidan Village. With a quality rest stop, vehicles can relax in comfort and receive other essential services. This objective also includes efforts to maintain road safety and promote a culture of safer travel. With the implementation of this service, we aim to improve and greener Sidan Tourism Village's conveyance system. In addition, it is anticipated that the collaboration with UCSI University, Malaysia, will bring additional innovation and knowledge to ensure that the traditional transit design we develop adheres to international standards and best practises in sustainable development. Through this community service, Sidan Tourism Village is committed to enhancing the tourist experience, enhancing the welfare of the local community, and promoting sustainable tourism.

## 2. Method

Data collection techniques in this research include direct observation or observation, Focus Group Discussion (FGD), and in-depth interviews. FGDs were conducted with semi-structured questions with the aim of accommodating the aspirations of the community and collecting data from the community related to existing problems [3]. Direct interviewing is a method used to obtain more in-depth information through social interaction and face-to-face meetings with sources [4]. The implementation of this community service begins with administrative preparations which include correspondence, then initial discussions with Partners regarding the details of the program plan and its implementation. Furthermore, collecting supporting data, surveys, and identification to find out the existing tourist support infrastructure at the Kissidan Eco Hill tourist attraction. From this activity, it is expected to get information in designing the necessary supporting facilities. The entire analysis will be outlined in design drawings and reports that will be discussed with Partners, so that input and suggestions from the results of the discussion can be included in the final report in the form of supporting facility designs. After conducting a field visit and signing partners, a Focus Group Discussion was held to find out the needs needed in Sidan Village. This focus group discussion also involved UCSI partners in its implementation. Based on the discussion, there are several important points obtained, especially regarding the arrangement of the parking area at Kissidan Eco Hill and the creation of rest areas along with shuttle terminals at several points. There are 2 parts that need to be handled, namely the parking area and the entrance to the Sidan Tourism Village.



**Figure 1.** Focus Group Discussion

In carrying out the design, measurements were first taken to determine the area of the parking lot available at Kissidan Ecohills, this land measurement starts from the top of the Kissidan Ecohills lobby area to the entrance of the Sidan Village cemetery. Measurements were taken several times in the Kissidan Ecohills parking area using a digital tool in the form of a total station to produce precise and fast measurements.

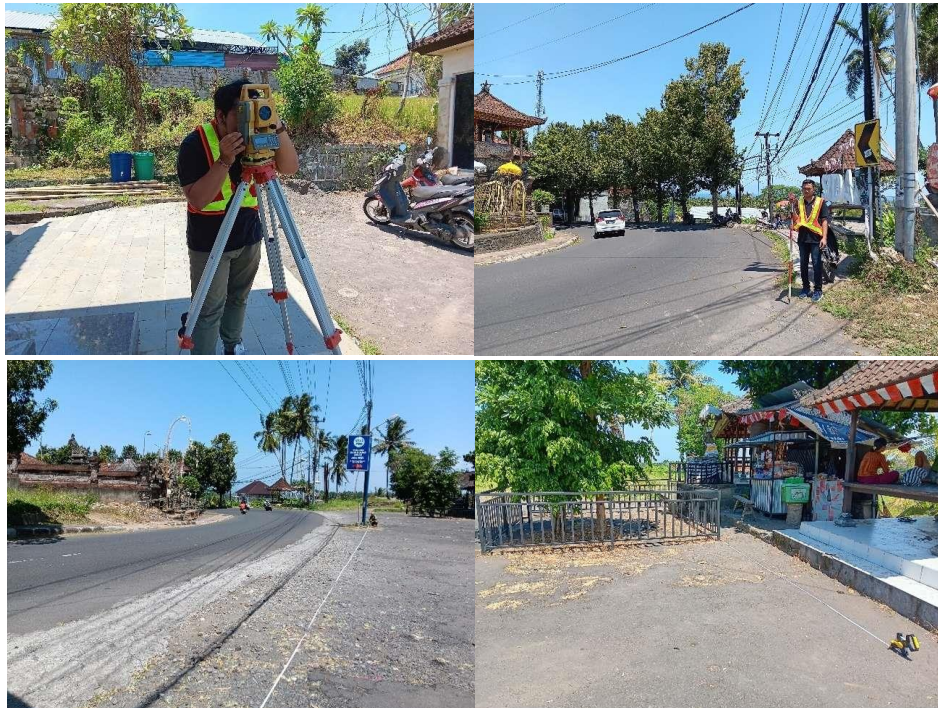


**Figure 2.** Area measure using total station

### 3. Result and Discussion

Based on these measurements, it has been determined that the existing condition of the parking lot in Sidan Village has been paved with asphalt, but the current asphalt condition has peeled off at several points, causing the parking lot to be in an uneven state. The parking area measures 889.5 m<sup>2</sup>, and the design for the arrangement and placement of shuttle buildings for public transportation will be planned accordingly.



**Figure 3.** Layout of kissidan ecohills parking area

The design concept that will be implemented in the Kissidan Ecohills parking area is a 90-degree parking angle system; this parking angle was chosen to maximise the number of vehicles that can be parked in the Kissidan Ecohills parking area. Due to the location of the Kissidan Ecohills parking area, which is on a bend, the entrance area will feature a run-off for vehicles entering the parking lot.

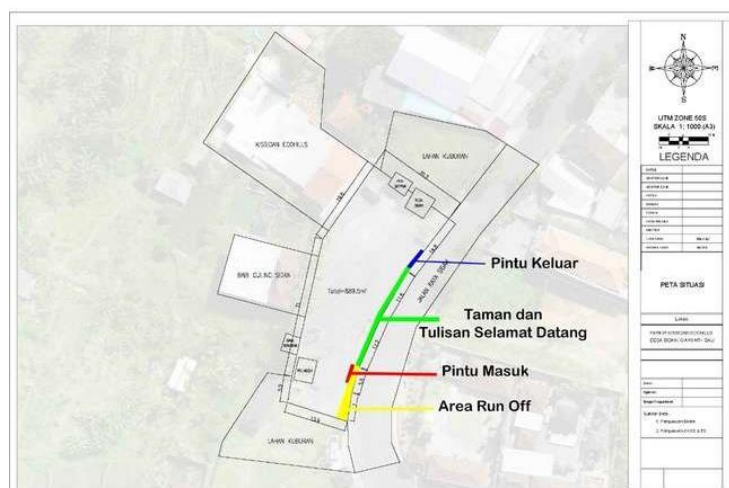


**Figure 3.** Parking entrance and exit concept

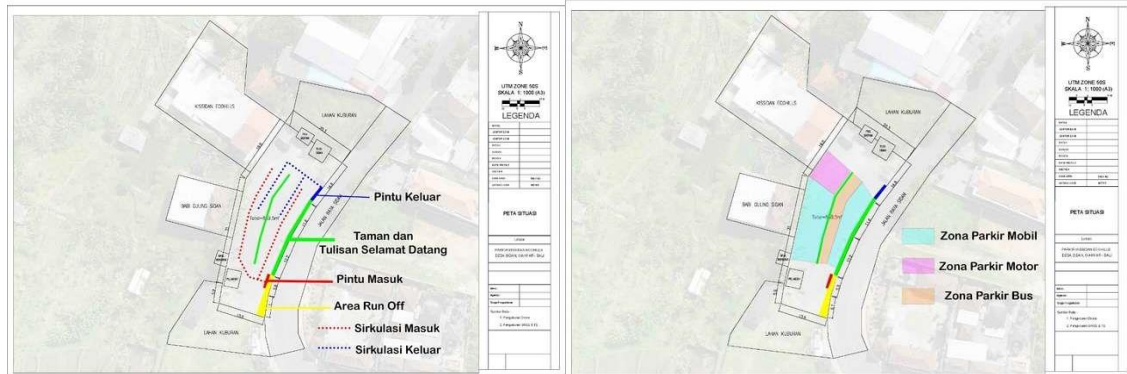


**Figure 4.** Parking circulation and zoning concept



**Figure 5.** Parking design concept

The design concept that will be applied to the shuttle terminal is the concept of environmentally friendly terminal design with electric vehicle transportation modes or vehicles with low emission levels. The design of the terminal will incorporate environmentally friendly goods, local production materials, a green roof, and solar panel technology to meet the energy requirements of this shuttle terminal. If the mode of transportation is an electric vehicle, the shuttle terminal will also be fitted with a charging station so that the shuttle can continue to operate without fretting about running out of power. This shuttle terminal is also designed to be accessible for people with disabilities.



Figure 6. Shuttle terminal design concept



Figure 7. Shuttle terminal concept breakdown



Figure 7. Shuttle terminal perspective view

## 4. Conclusion

There is an opportunity to expose and introduce Sidan Tourism Village not only to local tourists but also to foreign tourists in order to promote tourism, particularly in the Gianyar Regency area. Improving Sidan Village's infrastructure will attract tourists to the area. With the development of tourism-supporting infrastructure, Sidan Tourism Village can develop its tourism potential more rapidly. Sidan Tourism Village will undoubtedly be able to attract tourists with the proper infrastructure development strategy, which will have a positive effect on the local economy and the community's well-being.

## Reference

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