

## STUDY OF THE NEED FOR PUBLIC FACILITIES ON SOEKARNO-HATTA ROAD, WEST NIAS REGENCY

Arwadi Asmar Jaya Gulo<sup>1</sup>, Abdiyanto<sup>2</sup>, Ruri Prihatini Lubis<sup>3</sup>

<sup>1,2</sup> Universitas Pembangunan Panca Budi, Medan, North Sumatera

Corresponding email: [arwadigulo74@gmail.com](mailto:arwadigulo74@gmail.com)<sup>1</sup>,

Author email : [hajiabdiyanto@gmail.com](mailto:hajiabdiyanto@gmail.com)<sup>2</sup>, [ruriprihatinilubis@dosen.pancabudi.ac.id](mailto:ruriprihatinilubis@dosen.pancabudi.ac.id)<sup>3</sup>

### ARTICLE INFO

#### Article History

Submission : 08/05/2026

Received : 08/05/2026

Revised : 15/05/2026

Accepted : 18/05/2026

#### Keywords

Public Facilities, Local Economy, Tourism, Infrastructure.

### ABSTRACT

This study aims to conduct a study related to the need for public facilities on Jalan Soekarno-Hatta, West Nias Regency, which is one of the main routes connecting tourist areas and economic centers in the area. This road has a strategic role in supporting community mobility and is the main access for tourists. However, based on public observations and perceptions, public facilities along the road are still inadequate, which has an impact on the comfort and safety of road users. This study uses survey and interview methods to explore public opinions regarding the condition of existing facilities, such as roads, sidewalks, street lighting, rest places, and other public facilities. The results of the study show that the community expects improvements in road quality, the addition of safe sidewalks, better street lighting, and other supporting facilities such as public toilets and rest areas, supporting technology. This increase in public facilities is not only expected by local residents, but also by tourists who cross the route. The study also highlights the importance of cooperation between local governments and the private sector to overcome budget constraints and create better facilities. It is hoped that the improvement of public facilities on Jalan Soekarno-Hatta will improve the quality of life of the community, support the local economy, and strengthen the tourist attraction of West Nias Regency.

### Introduction

Infrastructure development, especially roads, has an important role in supporting economic growth and increasing the accessibility of an area. Adequate road infrastructure not only facilitates the flow of goods and services, but also has an impact on socio-economic changes in the surrounding community. West Nias Regency is the result of the expansion of Nias Regency based on Law Number 46 of 2008. This area consists of 8 sub-districts and is divided into 105 villages. West Nias was recognized as a New Autonomous Region (DOB) during the leadership of Nias Regent Binahati B. Baeha and the President of the

Republic of Indonesia Susilo Bambang Yudhoyono. The ratification of West Nias as a DOB was carried out by the Minister of Home Affairs of the Republic of Indonesia. West Nias Regency has a total area of 520.34 km<sup>2</sup> (200.90 sq mi) and based on data as of June 30, 2023, the total population in this area reached 97,633 people, with a population density of around 190 people per km<sup>2</sup> (490 people per sq mi). This data shows that West Nias Regency is a fairly dense area, where population increase can have a significant effect on the need for adequate public facilities and infrastructure to support people's daily activities. Jalan Soekarno-Hatta is one of the vital routes in West Nias Regency that connects various regions and is the main access for people in carrying out daily activities. With the region's increasing population and economic activity, the need for adequate public facilities to support pedestrian mobility and safety has become increasingly important. Aulia, S., et al. (2024). Here's a map image:

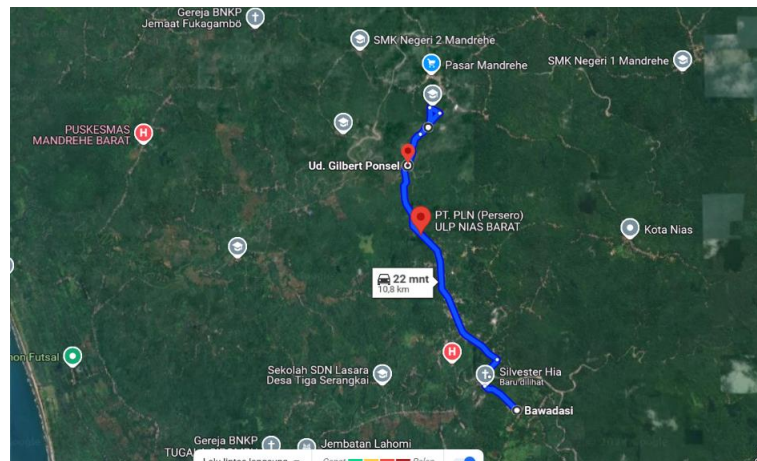


Photo: Jalan Sukarno Hatta West Nias

Source: google maps

Good public facilities not only play a role in improving the comfort of road users, but also in creating a safe and welcoming environment for all walks of life. To optimize public facilities on the road, several key needs must be taken into account, the provision of adequate sidewalks is essential to provide enough space for pedestrians, as well as ensure their safety from traffic flows. In addition, safe crossing facilities, such as zebra crossings and pedestrian bridges, need to be provided at strategic points to facilitate access for pedestrians. Adequate street lighting is also a crucial factor to improve visibility and safety, especially at night. In addition to these elements, the provision of green spaces, seating, and disability-friendly facilities should also be a major concern, Erlangga, D., & Handayani, D. (2020).

Adequate sidewalks, safe crossing facilities, and adequate street lighting are some examples of important elements that must be considered in the development of public facilities along this road. Wide sidewalks and flat surfaces are vital means of preventing accidents and optimizing pedestrian movement. In addition, the provision of crossing facilities such as zebra crosses and crossing bridges at strategic points can increase safety when crossing roads. Adequate street lighting also contributes to reducing the number of

accidents at night, as well as providing a sense of safety for road users. Gado, A., et al. (2021).

In addition to these aspects, the importance of providing green areas and seating cannot be overlooked. Neatly arranged green areas not only serve to beautify the environment, but also contribute to air quality and road user comfort. Comfortable seating along the sidewalk provides an opportunity for pedestrians to rest and enjoy the surrounding atmosphere, which in turn can encourage more people to walk and interact with the environment. Ilham Mirzaya, P. (2023). Based on initial observations, there are still many shortcomings in the provision of public facilities on Jalan Soekarno-Hatta. Some of the problems identified include narrow sidewalks, lack of clear signs, and inadequate lighting in certain areas. The absence of disability-friendly facilities is also a major obstacle, which can hinder mobility and accessibility for certain groups of people. These problems not only hinder pedestrian movement but also increase the risk of accidents that can threaten safety.

Therefore, this study aims to identify the need for appropriate and strategic public facilities on Jalan Soekarno-Hatta, as well as provide recommendations for improvements that can improve the safety, comfort, and quality of life of the people in West Nias Regency. By conducting a thorough analysis of existing conditions, surveys of road users, and comparisons with the standards of good public facilities, it is hoped that this study can provide a clear picture of what is needed to create a better environment for pedestrians. Propiona, J. K. (2021).

By understanding the needs of these public facilities, it is hoped that the authorities will be able to plan and implement effective solutions. The goal is for Jalan Soekarno-Hatta not only to function as an efficient transportation route, but also as a public space that is attractive, sustainable, and able to support the social and economic activities of the community. The provision of good public facilities will have a wide positive impact, improve the quality of life of the community, and encourage economic growth in West Nias Regency. Through this study, it will be studied how to study the needs of public facilities on Jalan Soekarno-Hatta, West Nias Regency. This study is expected to provide a comprehensive overview of the impact of road construction on the people in the region, as well as provide recommendations for more sustainable regional development.

## Method

This study uses a descriptive qualitative approach to describe the needs of public facilities on Jalan Soekarno-Hatta, West Nias Regency. This approach was chosen to gain a deep understanding of the condition of public facilities and public perception of existing needs through the interpretation of data from various sources. The research location is centered on Jalan Soekarno-Hatta, especially in areas with high pedestrian flow. The subjects of the study include local communities, local government officials, and business actors operating along the road. Informants are selected purposively to ensure that the data obtained is relevant to the purpose of the research.

Data collection techniques include several methods. First, in-depth interviews were conducted with key informants, including village officials, community leaders, and business actors, to obtain information about the condition of public facilities and the

expected needs of the community. Second, participatory observation is carried out to directly observe the condition of public facilities in the field, such as sidewalks, crossing facilities, and street lighting. Third, documentation studies include the collection of secondary data such as government documents, development reports, and statistical data to support the analysis.

Data analysis was carried out descriptively with a thematic approach that included data reduction, data presentation, and conclusion drawn.

## Results and Discussion

### 1) The type of public facilities on Jalan Soekarno-Hatta, West Nias Regency.

On Jalan Soekarno-Hatta, West Nias Regency, the public facilities currently available include several basic infrastructures that support accessibility and mobility of the community. Some of the existing facilities include street lighting at several points, which aims to improve safety when driving at night. In addition, there are drainage facilities that aim to prevent waterlogging or flooding, although it does not cover the entire path and still needs repairs and expansion in some areas.

Jalan Soekarno-Hatta also has some simple traffic signs that help regulate the flow of vehicles, but the placement and number are still limited. Sidewalks and pedestrian facilities are still minimal or even unavailable in many locations, so pedestrians have to share space with motorists, which increases the risk of accidents. Other public facilities such as bus stops for public transportation, seating, green open spaces, and parking areas are also very limited or non-existent along this road.

The limitations and conditions of these public facilities cause road users, both pedestrians and motorists, to experience difficulties in terms of safety, comfort, and accessibility. The lack of supporting facilities such as sidewalks, sufficient lighting, and adequate road signs and markings makes Jalan Soekarno-Hatta not fully meet the expected safety standards. Therefore, a study on the improvement and addition of public facilities on this road is urgently needed to ensure comfort and encourage economic activity in the area. This not only supports smooth traffic, but also improves people's quality of life by providing safer and more environmentally friendly infrastructure.

Table 1. needs and status of public facilities on Jalan Soekarno-Hatta, West Nias Regency.

No	Types of Public Facilities	Development Needs	Recommended Parties
1	Road Infrastructure	Improved quality of roads and lighting	North Sumatra Regional Government, Ministry of Public Works and Public Works
2	Parking Area	Addition of parking areas at major tourist locations	Local Government, Private Investment
3	Public Toilets	Addition and repair of clean public toilets	Local Government, Private sector through CSR
4	Rest Areas	Provision of a rest area with benches and roof	Local Government, Private Partnerships
5	Tourist Information Center	Construction of information centers in strategic locations	Local Government, Tourism Office
6	Directions and Information	Installation of directional signs and information boards	Local Government, Private sector through CSR
7	Internet Access and Telephone Network	Improvement of telecommunication network quality	Regional Government, Telecommunication Service Provider
8	Accessibility for the Disabled	Provision of access for people with disabilities in public facilities	Local Government, Private
9	Cleanliness and Waste Management	Preparation of the garbage can, cleaning routine	Local Government, Community, Private Partnerships

The need for attention and development of public facilities in the tourist area of West Nias Regency. Collaboration between the government and the private sector through various forms of investment and partnerships will greatly support meeting the needs of these facilities, increasing tourist attractions, and encouraging local economic growth. The Need for Government Attention to Inadequate Facilities in West Nias with Tourism Potential. West Nias has great tourism potential, with natural wealth, beautiful beaches, and a unique culture that attracts both local and international tourists. However, unfortunately, this potential has not been balanced with adequate public facilities. Damaged or underlit road infrastructure, lack of public facilities such as parking lots, rest areas, tourist information, and limited accessibility to some tourist destinations are the main challenges that the region still faces. This shortage can hinder tourism development, reduce tourist comfort, and risk reducing interest in long-term tourist visits.

The government needs to pay more attention to efforts to revitalize and build public facilities in the West Nias area. Improving road infrastructure and tourism support facilities is very important to increase accessibility to tourist sites. Additionally, amenities such as parking areas, clean public toilets, clear directions, and tourist information centers will provide a better experience for visitors, encourage them to come back, and even recommend the place to others.

Government cooperation with the private sector can also help accelerate the provision of these facilities, through investment in tourism facilities and infrastructure. Adequate facility support not only increases tourist attraction, but also provides a positive economic impact for local communities through job creation and business opportunities. With careful planning and continuous support, West Nias can develop sustainable tourism and improve the welfare of the community around the tourist area.

### **3) Public perception of their needs and expectations for public facilities on Jalan Soekarno-Hatta.**

Public facilities have a very important role in supporting social, economic, and tourism activities in a region. In West Nias Regency, especially on Jalan Soekarno-Hatta, the existence of adequate public facilities is needed to improve the quality of life of the community, the comfort of road users, and safety. As a main route connecting various areas, including tourist attractions, existing public facilities must include good road infrastructure, safe sidewalks, adequate lighting, and comfortable rest areas. However, many people feel that the current facilities are still far from sufficient, with damaged and unmaintained roads, sidewalks that are not available at some points, and a lack of essential facilities such as public toilets and clean and easily accessible dining areas. The community hopes that there will be significant improvements to existing public facilities. They want safer and more comfortable road conditions to pass, as well as sidewalks that can facilitate pedestrians well. In addition, better street lighting, especially at night, is also a hope that is often conveyed, considering the many activities that take place at night. The presence of shady rest places and adequate hygiene facilities is also highly desirable to increase the comfort of residents and tourists. The community realizes that good public facilities are not only beneficial for daily comfort, but are also very important for supporting the tourism sector and the local economy. Facilities such as tourist information centers and adequate parking areas can enhance the experience of visiting tourists, which in turn can strengthen the tourism sector of West Nias Regency.

There are several obstacles that hinder the improvement of public facilities on Jalan Soekarno-Hatta, one of which is the limited budget owned by the local government. In addition, the lack of coordination between the government and the private sector in the management of public facilities is a significant obstacle. Businesses around the area also feel that they are not sufficiently involved in the planning and management of existing facilities, even though they can make a significant contribution to the development of the infrastructure. Therefore, collaborative efforts are needed between local governments, communities, and the private sector to create more effective and sustainable solutions in improving public facilities on Jalan Soekarno-Hatta.

#### **Table 2. The importance of cooperation between the Regional Government (Pemda) and the private sector**

Aspects	The Role of Local Government (Pemda)	The Role of the Private Sector	Benefits of Cooperation
Funding	Provide a budget for the construction and maintenance of public facilities.	Investment in the construction and maintenance of public facilities.	Increase the amount of funds available for facility development.
Infrastructure Planning	Planning the needs of public facilities based on community input and needs analysis.	Provide design and technical input based on experience and expertise.	Creating facilities that suit the needs of the community and business actors.
Facility Maintenance	Responsible for the long-term maintenance and sustainability of public facilities.	Provides efficient maintenance management, including the use of technology.	Improve the quality of public facility services with more efficient management.
Improved Service Quality	Supervise and ensure public facilities meet quality and safety standards.	Providing innovation and technology in improving the comfort and safety of facilities.	Improve the quality of public facilities that are comfortable and safe for users.
Tourist Attractions	Develop policies that support the development of tourism and related facilities.	It provides tourist facilities such as restaurants, information centers, and rest areas.	Increasing tourist attraction which has a positive impact on the local economy.
Resource Management	Regulate the sustainable use of resources for public facilities.	Play a role in more efficient management with a technology-based and sustainability approach.	More efficient and environmentally friendly management.
Improving the Local Economy	Provide policies that support local economic development through public facilities.	Develop businesses that support the local economy, such as shopping malls, eateries, etc.	Improving the local economy by creating new jobs and business opportunities.

Solid cooperation between the local government and the private sector can provide mutually beneficial benefits, overcome government budget limitations, and create better, efficient, and sustainable public facilities on Jalan Soekarno-Hatta, West Nias Regency.

The improvement of public facilities on Jalan Soekarno-Hatta is urgently needed to support the needs of the community and maximize the tourism potential in West Nias Regency. Local governments should pay greater attention to the development and revitalization of public facilities, by involving all relevant parties in their planning and management. With the improvement of adequate facilities, it is hoped that a more comfortable and safe environment can be created for the community and tourists, which will ultimately have a positive impact on the local economic growth and tourism attraction of the area.

## Conclusion

The construction and management of public facilities on Jalan Soekarno-Hatta, West Nias Regency, is very important to improve the comfort, security, and quality of life of the

community, especially in supporting the tourism sector and the local economy. Based on the analysis, many of the facilities that currently exist are still inadequate, such as road conditions, lack of street lighting, unsafe sidewalks, and other public facilities that are inadequate. The community has high hopes for the improvement and improvement of these public facilities, both for daily comfort and to support the existing tourism potential.

To achieve sustainable improvement, cooperation between the Regional Government (Pemda) and the private sector is very necessary. Local governments have an important role to play in providing supportive budgets, planning, and policies, while the private sector can contribute through investment, innovation, and efficient management. This collaboration can help overcome resource limitations and create better public facilities, which in turn will encourage local economic growth and increase the tourism attractiveness of West Nias Regency.

By improving public facilities that are in accordance with the needs of the community and business actors, it is hoped that a more comfortable, safe, and productive environment can be created, which will have a positive impact on all parties, especially in improving the quality of life of the community and supporting sustainable regional development.

### References

- Abdiyanto, A., Sinar, T. R. H., Milanie, F., Nuraini, C., & Azhari, I. (2023). Analysis of Determining Service Center Systems towards the Development of The Eastern Part of Medan City. *International Journal Paper Advance and Scientific Review*, 4(4), 91-105.
- Arfan Marwazi, Cut Nuraini, Abdiyanto, Abdi Sugiart, Feby Millanie. (2023). Preliminary Study of Regional Planning in the City of Medan. *ARMADA: Journal of Multidisciplinary Research*, 1 (12), 1405-1407.
- Aulia, S., Anisa, S. N., Indah, A., Dipa, M. A. K., & Panorama, M. (2024). Analysis of the role of infrastructure in economic growth and development in Palembang City. *Journal of Economics and Accounting Publications (JUPEA)*, 4(1).
- Azizi, F. A., Nurdin, A. L., Yunus, M., Khamid, A., & Feriska, Y. (2023). Analysis of Car Parking Space Capacity in the Pancasila Street Area, Tegal City. *The Age of Science: Journal of Science, Engineering and Informatics Research*, 1(1), 78-90.
- Dicky Rahmadani, Cut Nuraini, Abdiyanto, Abdi Sugiarto, Feby Millanie. (2023). Environmental Cleanliness Management Design in Pematang Siantar City. *ARMADA: Journal of Multidisciplinary Research*. 1(12), 1408-1414.
- Erlangga, D., & Handayani, D. (2020). The concept of walkability index and the handling of pedestrian facilities in urban road areas in Indonesia. *Journal of Civil Engineering Research*, 4(1), 12-22.

- Gado, A., Ismiyati, I., & Handajani, M. (2021). The Effect of the Accessibility Level of Public Passenger Cars on the Economic Development of the Community in Sikka Regency, NTT Province. *Journal of Civil Engineering Applications*, 19(3), 351-360.
- Ihham Mirzaya, P. (2023). The Impact of Road Repairs on the Socio-Economic Conditions of the Klumpang Kebun Village, Hamparan Perak District, Deli Serdang Regency. *Journal of Mental Health*, 31(3), 178-197.
- Noviyanti, N., & Putra, I. M. (2023). The impact of road repairs on the socio-economic conditions of the people of Klumpang Kebun Village, Hamparan Perak District, Deli Serdang Regency. *Journal of Mental Health*, 31(3), 178-197.
- Pondayar, E. S. A., Rante, H., & Julison, B. (2023). The Influence of the Accessibility of the Trans Wamena-Nduga Road Section on Economic Growth in Nduga Regency. *SIPIL PORTAL Journal*, 12(2), 98-106.
- Propiona, J. K. (2021). Implementation of accessibility of public facilities for people with disabilities. *Journal of Sociological Analysis*, 10.
- Rusmandani, P., & Setiawan, R. S. (2020). Evaluation of Bus Stop Facilities and Determination of Bus Stop Needs in Tegal City. *Indonesian Journal of Road Safety*, 7(1), 40-58.
- Simorangkir, W. (2022). Analysis and evaluation of the development of infrastructure development and economic growth. *Journal of Price: Economics and Accounting*, 1(01), 29-35.
- Siregar, Z. (2020). Study on the arrangement of the pedestrian path of Jalan Kapten Mukhtar Basri Medan as the main access to the UMSU campus. *MESIL Journal (Civil Electrical Machinery)*, 1(1), 46-55.
- Putra, A. P., Hendaro, T., Wijayanti, R. F., Hayati, N., Agustini, M., Muhajir, M., ... & Sulistiawati, A. (2024). Analysis of Community Participation in the Minropolitan Area in Trenggalek Regency, East Java Province. *Journal of Media Informatics*, 6(2), 330-336.
- Putri, D., & Wahyudi, T. (2020). Public Facilities as a Driver of Community Participation in Urban Planning. *Journal of Urban Development*, 10(2), 121-134.
- Rahmawati, I., Ariyani, Y. N., & Fitriani, A. (2024). The Level of Community Participation in the Urban Farming Program in Samtama Village, Central Jakarta. *Villages-Cities: Journal of Regional, Urban, and Settlement Planning*, 6(2), 55-67.
- Rahmawati, S., & Santoso, B. (2021). Ecology-Based City Facilities for Urban Sustainability. *Journal of Environment and Urbanity*, 15(1), 45-59.
- Ramadhan, I., & Yulia, P. (2022). Public Space as a Facilitator of Citizen Participation in Urban Planning. *Urban Community Research Journal*, 11(4), 189-202.
- Risky, F. W. N., & Ramdani, R. (2022). Good Urban Governance in the Development of Green Open Space in Bekasi Regency. *MUQODDIMAH SCIENTIFIC JOURNAL: Journal of Social, Political and Humanities Sciences*, 6(1).

- Sari, R., & Handayani, N. (2023). Transparency and Access to Information as Supporting Factors for Community Participation in Urban Planning. *Journal of Urban Planning*, 12(1), 65-77.
- Wijaya, M., & Lestari, S. (2022). Digital Technology in Municipal Facilities Management. *Journal of Smart Urban Development*, 9(3), 77-89.