

35

by andre scabra

Submission date: 05-Feb-2023 08:12PM (UTC-0600)

Submission ID: 1993993424

File name: as_a_Beach_and_Turtle_Tourism_Destination_In_Lombok_Regency.pdf (2.42M)

Word count: 4514

Character count: 25087

ICST
2018

**3rd International Conference on
Science and Technology**

PROCEEDINGS

Mataram, December 10, 2018



**INSTITUTE FOR RESEARCH AND COMMUNITY SERVICES
UNIVERSITY OF MATARAM**

PROCEEDING

²
The 3rd International Conference on Science and Technology (ICST 2018)

“Emerging Sciences and Technology for Human Prosperity and Health”

Mataram, 10th December 2018

¹¹

Person in Charge

: Prof. Dr. Lalu Husni, SH., M.Hum.

Council of the Committee

: Dr. Muhamad Ali, SPT., M.Si.
Prof. Dr. I Gusti Putu Muliarta Aryana

Chairman of the Committee

¹
: Dr.rer.nat. Lalu Rudyat Telly Savalas, M.Si.

Peer Reviewer:

- (1) Prof. Made Sudarma, Ph.D.
- (2) Dr. Sugiman
- (3) Dr. Syahrul
- (4) Dr. Wayan Sudiarta
- (5) Dr. Imam Bachtiar
- (6) ⁴of. Dr. Unang Surahman
- (7) Prof. Dr. Mohammad Farid Ramadhan Hassanien (Egypt)
- (8) Prof. Dr. Jim Gannon (American University of Sharjah, Uni Emirat Arab)
- (9) Prof. Helmut Erdmann (FH Flensburg, Germany)
- (10) Dr. Kamal Rullah (UKM, Malaysia)

Editor and Layout:

Guyup Mahardhian Dwi Putra, S.TP., M.Si.
Diah Ajeng Setiawati, ST., MES.
Rucitra Widyasari, S.TP., M.Si.

ISBN : 2018978-602-53669-7-0
Cetakan Pertama : Desember 2018

Publisher: ¹

University of Mataram

Jl. Majapahit No. 62, Mataram, West Nusa Tenggara, Indonesia 83125

Telp. +62-0370-633007 / Fax: +62-0370-636042

**4 Preface of the Proceeding of
The 3rd International Conference on Science and Technology 2018**

1
Bismillaahirrahmaanirrahiim
Assalaamu'alaikumwarahmatullaahwabarakaatuh.
Peace be upon us.

Praise always we pray to God Almighty for giving us the abundance of grace, guidance and inayah, so that we all could meet in Lombok, a beautiful island “the Island of Thousand Mosques” in West Nusa Tenggara Province. Our Lombok island known to its many natural and cultural diversity where you can enjoy cuisines, beaches, waterfalls, mountain, traditional villages and handicraft of many ethnics in this Island.

On behalf the Committee, I would like to thank you all attendee of the “3rd International Conference on Science and Technology (ICST) 2018” on December 10th 2018 and shared impressive ideas, knowledge and experiences through the article to build network for possible future collaboration, therefore the proceedings can be realized.

This proceeding published articles from presenters that came from various universities and research institutions in Indonesia and from overseas (Philippine, Australia, Thailand). Research papers already reviewed on the basis of a full length manuscript that accepted based on quality, originality and relevance.

At this moment, the organizing committee would like to express our gratitude to the all keynote speakers and presenters who have submitted for article and also to all participants to share their acknowledged works, your effort and contribution to the conference are absolutely valuable. Our special gratitude also goes to the Rector of the University of Mataram and Head of Institute for Research and Community Services) University of Mataram, West Nusa Tenggara, Lombok, Indonesia, who have been highly supporting the conference.

Last but not least, I would like to thank the organizing committee as well as all other supporters and participants, as without their effort, commitment and hard work, the publication of this proceeding will be hardly achieved. Critics and suggestions on the improvement of this proceeding will be highly appreciated. Hopefully the next ICST can be better prepared based on this recommendation.

1
Wassalamu'alaikum warohmatullahi wabarakatuh.

Chairman of 3rd ICST 2018

Dr.rer.nat. Lalu Rudyat Telly Savalas, M.Si.



TABLE OF CONTENT

Committee	i
Preface	ii
Table of Content	iii
Keynote Speeches	vi
P_ICST2018_01 First Record of Some Amblyopine and Oxudercine Gobies (Teleostei, Gobiidae) in The Lesser Sunda Islands Yuliadi Zamrudi	01-16
P_ICST2018_02 Somatotype of Sasak Children at Different Altitude in Lombok Island Novita Tri Artiningrum, Bambang Suryobroto, Tetri Widiyani	17-23
P_ICST2018_03 Forecasting of Tourist Visits Probabilities using Diagonalization Transition Matrices of Markov Chain in West Lombok Regency Desy Komalasari, Baiq Triastiti Rosalina	24-27
P_ICST2018_06 From an International Standard School to A Regular School: English Primary School Teachers' Agentic Responses toward a Changed Policy of English Teaching and Assessment Santi Farmasari	28-35
P_ICST2018_07 Chemical, Microbiological, and Sensory Properties of Pickled Pindang's Eggs Affected by <i>Lactobacillus plantarum</i> Sufine Rijaldie Malik, Nazaruddin, Wiharyani Werdiningsih	36-45
P_ICST2018_10 Zonation and Analysis of Drainage Network Capacity for Better Flood Control in The Unus Drainage System, Mataram City Agustono Setiawan, Lalu Wirahman W, Bambang Harianto, IDG Jaya Negara, Zaedar Gazalba	46-56
P_ICST2018_11 Yield Components of Various Varieties of Peanut Relay Intercropped Between Rows of Maize Inoculated with Arbuscular Mycorrhiza under Two Nitrogen Levels Wayan Wangiyana, I Komang Damar Jaya, Herman Suheri	57-62
P_ICST2018_12 The Antibacterial Activity of Tomato (<i>Lycopersicum esculentum L</i>) Extract on Bacillus Cereus Causes of Food Poisoning Earlyna Sinthia Dewi	63-67
P_ICST2018_14 Kinetics Modelling of Change on Brix Value of Lime (<i>Cytrus amblycarpa</i>) while Storage Erni Romansyah, Suwati, Muliatiningsih, Asmawati	68-71
P_ICST2018_15 Analysis of Garbage Transportation System in Mataram City using Dynamic Programming with GIS-Based Data Ayu Lestari, Teti Zubaidah, Buan Anshari	72-78
P_ICST2018_16 Determination of Success Factors Smallholders Livestock in Realizing Beef Self Sufficiency in West Tenggara Barat Mashur, Kholik, Kunti Tirtasari, Dina Oktaviana	79-100
P_ICST2018_17 The Effect of Volume Fraction of Coconut Fiber with Sengon Core Powder on The Strength of Hybrid Sandwich Composites Salman, A Alit Triady, Muhammad Hazmi	101-108
P_ICST2018_19 Reciprocal Teaching on Students' Reading Comprehension Achievement Sopian Saori, Pathul Indriana	109-115
P_ICST2018_20 Effect of Glass Cover Gap on The Performance of Flat Plate Collectors with Granite Stone Absorber Made Wirawan, Mirmanto, Dody Tantawin	116-123



P_ICST2018_24	12 Innovation to Increase the Tensile Strength of Sade Woven Yam Using Sizing Method Gita Mardialina, Siti Alaa, Susi Rahayu, Dian W. Kurniawidi	124-128
P_ICST2018_25	Comparison of the Effectivity between Jackknife and Bootstrap for Parameter Estimation in Regression with Assumption Violation Uny Madya binti Wasio, Mustika Hadijati, Nurul Fitriyani	129-132
P_ICST2018_26	Drying Kinetics of <i>Moringa oleifera</i> Leaves on Antioxidant Activities and Nutrition Content Rucitra Widyasari, Yeni Sulastri, Rini Nofrida, Zainuri, M. Zaini Abbas, 2 ufikul Hadi	133-137
P_ICST2018_27	High-Throughput In Vitro Construction of Protein Library: A Potential Technology for Containing An Emerging Pandemic Avian Influenza Muhamad Ali and Yunita Sabrina	138-144
P_ICST2018_28	Anticipating Building Damages due to Earthquake using Averaged Shear Wave Velocity in The Upper 30 M Depth (VS30) in Central Java 6 ta Desiasni, Ade Anggraini, Wiwit Suryanto, Amirin Kusmiran	145-153
P_ICST2018_29	Mechanical Fatigue Life Analysis of Steel Leaf Spring Structure using Finite Element Method Amirin Kusmiran, Zainal Abidin, Muhamad Hidayat, Rita Desiasni, Nurulia Shinta Rahmani	154-162
P_ICST2018_31	The Effect of Monosodium Glutamate Administration to the Prostaglandin Levels on Pregnant Albino Wistar Rats Fitri Apriyanti, Dian Soekmawaty Riezqy Ariendha, Ami Amir, Defrin	163-166
P_ICST2018_33	Determinants of Student Development to Achieve the Vision of the Faculty of Mathematics and Natural Sciences, Universitas Mataram 2 gus Kurnia, Nurul Fitriyani, Sigit Ary Wijayanto	167-170
P_ICST2018_34	Review: Application of Probiotics to Enhance Growth Rate and the Immune Systems in Terrestrial and Aquatic Species Muhamad Amin, Muhammad Ashari, Muhamad Ali	171-182
P_ICST2018_37	The Characteristics of Physical Properties of SAP (<i>Arenga pinnata</i> <i>Merr.</i>) during Cooking Using Semi-Automatic Machine Stirrer 13 ty Kurniawan, Yeni Sulastri, Rucitra Widyasari	183-186
P_ICST2018_38	In Vitro Regeneration of Agarwood Plant (<i>Aquilaria filarial</i>) Baiq Erna Listiana, Sumarjan, Ulrich Schurr, Tri Mulyaningsih	187-194
P_ICST2018_39	Improvement of Independence Character and Student Learning Results through Development of Driil Problem based Complex Analysis Books Mariamah, Syarifuddin	195-201
P_ICST2018_40	Application of Three Dimensional Media and Computer Simulation to Improve Student Learning Outcomes Hikmawati, Kusmiyati, Sutrio	202-210
P_ICST2018_41	Determination of In Situ Permeability using Characteristics of Stoneley Waves Kosim	211-215
P_ICST2018_43	Tripolyphosphate-Crosslinked Chitosan Beads for Pb(II) Metal Ions Adsorption Made Ganesh Darmayanti, Siti Hana Itqiyah, Dedy Suhendra, Dina Asnawati	216-220
P_ICST2018_44	Growth Rate, Molting Percentage and Ecdyson Titre of Juvenile <i>Panulirus homarus L.</i> with Artemia Silage Muhsinul Ihsan, Trijoko, Nastiti Wijayanti, Handa Muliarsi	221-226

P_ICST2018_45	Encryption and Decryption of Text using Hill Cipher Modified Deni Hamdani, Sjamsjiar Rachman	227-235
P_ICST2018_46	Design of Sedayu Beach Area as A Beach and Turtle Tourism Destination in North Lombok Regency Rini Srikus Saptaningtyas, Sitti Hilyana, Humairo Saidah	236-245
P_ICST2018_47	Deep Reading as Instrument to Increase Student's Learning Comprehensiveness in Food Chemistry Course Baiq Nila Sari Ningsih, Nabila, Jannatin 'Ardhuha, Nurwahidah, Lalu Rudyat Telly Savalas	246-248



DESIGN OF SEDAYU BEACH AREA AS A BEACH AND TURTLE TOURISM DESTINATION IN NORTH LOMBOK REGENCY

Rini Srikus Saptaningtyas^{1*}, Sitti Hilyana², Humairo Saidah¹

¹Faculty of Engineering, University of Mataram, Jln. Majapahit No. 62 Mataram
83125, Indonesia

²Marine Science Department, University of Mataram, Jln. Pendidikan, Mataram,
Indonesia,

*Corresponding Author: rinisaptaningtyas@unram.ac.id

Abstract. The aim of the Sedayu Beach design is to improve the function and quality of tourism in Sedayu Beach to be a tourist that is worth visiting by the people on the island of Lombok in particular and the Indonesian people in general, as well as protecting sea turtles from extinction and has its own tourist attraction. The method used is descriptive analysis method. The results of the Sedayu Beach design are the division of the 5 zones, namely: parking zones, managers, culinary, children's games and sports, and tourism (boats, turtle breeding and fishing). The conclusion is that by designing Sedayu beach, it will later become one of the tourist destinations with improvement of infrastructure and the accessibility of coastal and marine areas. So that it can support the economic rate of coastal and marine communities. Revitalization of the area that functions as a turtle tourism area is directed at saving the existence of turtles, biota and abiota in the waters, improving and preserving the quality of the environment while securing coastal areas from the threat of natural disasters.

Keywords: beach tourism, design, turtle

1. Introduction

The design of the Sedayu beach area as a tourist destination is an effort to improve the quality of the environment and the economy of the community. Because tourism itself is a tourism service activity involving the community, the government and related stakeholders, as stated in Republic of Indonesia Law No. 10 of 2009 [1], Tourism is a variety of tourism activities and is supported by various facilities and services provided by the community, entrepreneurs, the Government and the Regional Government. Tourism is a travel activity carried out by a person or group of people by visiting certain places for recreational purposes, personal development, or studying the uniqueness of tourist attractions visited in the interim period.

One district in West Nusa Tenggara that has potential in the tourism sector is North Lombok Regency. North Lombok Regency has the potential in the tourism sector which is large enough to be developed, with the presence of various tourism objects, both natural attractions and artificial tourism objects. It is estimated that its development will be quite rapid in the future. Tourism that has been sufficiently developed is Three Gili (Tramena) which is very global, Medana Cemetery / Medan Bay Marina, nature tourism (beach, mountain, waterfall, forest), artificial tourism (city park, golf course, bird park, hotel (the Oberoi Lombok), small yachts (yachts), restaurants, swimming pools etc.). In



addition to tourism objects that have been developed, it turns out there are still many other tourism potentials that have not been developed, and this requires a separate treatment. One of them is beach tourism which is also the only turtle tour in Tanjung- North Lombok Regency. The natural potential contained in it is turtle tourism, where turtle tourism destinations are still rarely found on Lombok Island, even West Nusa Tenggara Province. In the North Lombok Regency Tourism Master Plan, the Sedayu beach has been included in the coastal tourism development area. For this reason, it needs to be followed up with planning and design in accordance with the natural potential and carrying capacity.

Beach tourism is an activity on the beach where recreational activities are carried out. The word coastal tourism, can be broken down into the words 'tourism' and 'beach'. Tourism means to carry out recreational activities and relax to eliminate boredom during work, whether going alone or in groups. Whereas according to Mahadi [2], tourism means: picnics, traveling together (to expand knowledge, have fun, etc.), sightseeing activities of individuals or groups to travel from one place to another that have a temporary nature, as an effort to find balance or harmony and happiness with the environment in the dimensions of social and cultural, natural and scientific. While the word 'beach' is the border area between the land and sea waters. This beach boundary can be found in the Law No. 27 of 2007 [3], what is meant by the beach boundary is land along the edge which is proportional to the shape and physical condition of the coast, at least 100 meters from the highest tide to the land. The beach consists of sloping beaches and steep beaches. The sloping beach is the coast or the edge of the sea whose land decreases little by little towards the sea.

To design a coastal tourism area must fulfill the criteria, among others: the land is quite sloping and it is possible to build buildings that do not damage the environment, have accessibility, there must be a management office, restaurants, recreation areas, prayer rooms, toilets, parking lots and vegetation that is suitable for the coastal climate.

2. Methodology

The method used is descriptive analysis. In this study used physical design concepts with reference to the design guidelines, which include the following:

- a) Site conditions
- b) Activity and circulation
- c) Building design consisting of: building mass, an appearance of the building, structure, and building material
- d) Sanitation system

2.1. Determinants of Design

The design of the Sedayu beach area is based on the need for beach tourism, land tourism (turtle tourism, etc.) which is adjusted to the standard function of the amount of space and function of accommodation.

2.1. Actors of activity and circulation

The meaning of actors is all people or individuals involved directly or indirectly in activities in the coastal tourism area and turtle tourism.

- a. The activities and activities are as follows:
- b. Tourists visiting
- c. Manager of coastal tourism areas and turtle tourism
- d. Employee

This tourist activity has a flow of human and goods circulation. For human circulation seen from visitors or tourists who come to the location and area manager. While for circulation of goods is the process flow from the receipt of goods to the activity units and the space that requires the goods.

2.2. Location and Site Approach

The location of the Sedayu beach area - Tanjung in North Lombok Regency has a fairly flat topography so it does not need special handling. To analyze the location based on the potential for good location for the development of coastal tourism and at the same time the existence of turtle tourism potential that is very supportive to be developed into tourism commodities.



3. Results and Discussion

Discussion result in this design include:

a. Activity Analysis

Analysis of this activity is to determine (1) groups of activity actors, which consist of visitors, managers and activity supporters (street vendors); (2) determine the characteristics of activities divided into activities for the age group and type of activities.

b. Analysis of Grouping Activities and Space requirements

Approach to space needs is based on activities that are accommodated and the actors of the activity. Whereas the nature and demands of space are based on the nature of the activities and character of the activity actors. Can clearly be seen in the table below:

Tabel 1. Space Requirement and Nature of space

NEED FOR ACTIVITIES	ACTORS	Space Requirement	Nature of space
A. Water Recreation			
1. Enjoying natural scenery and Fisherman Activities	Visitors	a. Quay b. Gazebo c. Viewing post	¹ Public
2. Fishing at the Jetty	Visitors	a. Tool – rent room	Semi Public
3. Water sports activities	Visitors	a. Dress room and rinse b. Storage room for goods c. Supervisor room	Semi Public
a. Swimming	Visitors	a. Counter room b. Supervisor room	Semi Public
b. canoeing	Visitors	a. Counter b. Supervisor Room c. The waiting room d. Lavatory e. Goods storage room f. Quay	Semi Public
c. Sail with a small boat	Visitors		
A. Land Recreation Tourism			
1. Walk around enjoying the scenery and playing			¹
a. Walk on the beach	Visitors	Promenade	Public
b. Play	Visitors	Green open space	Public
c. Sit on the beach	Visitors		Public
d. turtle breeding	Visitors	a. Counter b. The waiting room c. Toilet d. A place to breed turtles at sea	Public
2. Restaurant			
Eat and drink	Visitors	1. Counter 2. Dining area 3. kitchen 4. Staff room 5. Toilet	Semi public
Religious activities	Visitors and staff	1. Prayer room 2. Male ablution place 3. Women's ablution place 4. Bathroom / toilet	Private
3. Souvenir Sales Place	Visitors	Souvenir sales area	Public
4. Management			
a. Handle each field	Manager and staff	1. Manager's Room 2. Public Service Room 3. Financial Room 4. Operational Room 5. Maintenance and service	Semi public
b. Conduct meetings, discussions			
PUBLIC SERVICE RECIPIENT ACTIVITIES			
Serve visitors	Staff	Loket	Public
Giving information			

PUBLIC SERVICE ACTIVITIES

Supervision	Security	Medical room	Public
Rescue and help			
Parking			
Entrance ticket counters	Parking attendant	Parking area	
Office	Locker clerk	Entry counter	
Worship	Employee	Office	
bathroom / toilet	All	Islamic Prayer Room	
	all	Toilet	

c. Location Analysis

Location analysis consists of site analysis and accessibility. For location analysis, we can see the location of Sedayu beach in Gondang village. The existence of an interesting site from its natural potential makes this area one of the coastal areas which is one of the alternative natural attractions in North Lombok Regency, especially with the turtle breeding being guarded by people living near the beach of Sedayu. Activities that can be carried out on this coast include seeing the sights, beach tourism, and enjoying seafood culinary that can be enjoyed at available coastal restaurants.



Figure 1. Location of Sedayu Beach

The accessibility of Sedayu beach is quite strategic considering that this beach is included in the area near the Tanjung city, so that the achievement from the city center is close. Especially with the planned opening of the North Ring through this area, it will further facilitate access to this coastal tourism area.

d. Site Analysis (Macro Spatial)

Site Design Based on Topography. The topographic conditions around the Sedayu coast are relatively flat from 0 - 3%. And most of the sites have not been utilized optimally (there are still many vacant lots). Based on observations in the field, as a place of recreation, this beach is less functionally considered and the area of land that is available to be used by visitors. For existing conditions Boat mooring, the majority of residents living in coastal areas have a livelihood as fishermen. So, there are many ships anchored in the coastal area and the layout of the boats used by fishermen to search for the sea is still very irregular. Turtle breeding sites are currently very simple and there is no education on how to make turtle breeding be better and right.



Figure 2. Site analysis based on topography. (a) Empty land that can be used for parking lots. (b) Empty land that can be used to support coastal tourism, namely culinary (restaurant). (c) Empty land that can be used for green open space. (d) The effect of the direction of the ocean waves that can collect sand on the beach, can be directed to make Jetty for fishing. (e) Boat mooring is developed into a quay with supporting facilities.

e. Analysis of the Sea Area

The current conditions in the sea area are still not well organized. The shipping traffic zone is still not organized so it has not taken into account the existence of marine ecosystems within it. So, sea boundaries will be planned using flags as a sign. This core zone area will be created as an area of maintenance of existing marine ecosystems so that later it can be maintained and become a source of abundant fish.

d. Landscape Analysis (Micro Spatial Planning)

- Analysis of natural elements
 - 1) Vegetation

A collection of vegetation will affect climatic conditions, site characteristics and soil type. In addition, it affects local hydrological conditions. Vegetation also has a close connection with the local ecosystem. The character of vegetation is in accordance with the area of its habitat.

- 2) Analysis of Landscape Furniture

Landscape furniture needed in designing recreational areas requires clarity of functions of existing furniture. The considerations used in determining the type of landscape furniture are:

- Attractive in terms of arrangement and shape
- Able to withstand climate (sun, wind and rain)
- Ease of maintenance and repair.

Landscape types can be seen as followed :

- 1) Information Board

The information board functions as a guide and provides information about the area in the recreation area. Information boards designed in the form of alluminium on a concrete monument containing instructions / information on the location of existing tourist facilities.



Figure 3. Example of information board

2) Sculpture

Sculpture can be made from natural forms such as marine flora and fauna, boats / boats. In planning, the shape of the fish will be chosen

3) Seating Area (Rest and Recreation)

The sitting and resting area is in the form of a seat for pedestrians who want to rest after being tired of walking at a certain distance and placed on the edge of the pedestrian. According to the requirements the accessibility of rest areas is available every 9 meters for people with disabilities.

Besides that there is also a large sitting group area (5-10 people) which is placed separately from the circulation path clearly.



Figure 4. Example of Seating Area

4) Lighting

Lighting is needed because the recreation area is planned to be opened also for the afternoon / evening. For this reason, lighting is needed in the form of street lights (vehicle lanes), pedestrian, garden, sculpture and lighting in buildings. The design is prioritized on the lights in the open area

5) Pedestrian

Pedestrian is the main area of movement in the area so it needs to be considered in terms of:

- Psychological aspects
Willingness and desire to do activities in the recreation area without feeling bored, afraid, bored or tired.
- Climatological conditions
Climate conditions that affect visitors' interest in walking through pedestrian.

- Accessibility aspects

A recreational facility is not only a building but must meet accessibility facilities for difable people who provide ease of achievement.



Figure 5. Example of pedestrian

6) Jogging Track Area



Figure 6. Example of jogging track area

e. Facade analysis of buildings

- The form of an informative building is able to communicate activities that are accommodated by activities around it. The character of the appearance and shape of the planned building is inspirational, innovative and communicative, which is a form that is able to provide creative power in accordance with the activities that are accommodated, not boring and gives an interesting impression to be seen.

• Facade of the building

The basic form of building facade is based on creative forms that are informative with coastal and free sea settings as a basic form of reference. The ideas of design are based on:

1) Sea wave

Corrugated canopy forms like waves

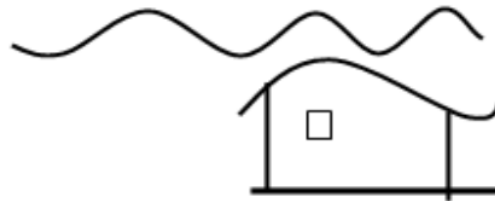


Figure 7. Corrugated canopy forms like waves

2) Fish

The shape of fish can be used as an alternative display of monumental buildings



Figure 8. Fish species

- 3) Speed boats, fishing boats and marine vessels have a form that is identical to the coastal area of Sedayu so it is suitable to be used as an alternative display of recreational building masses.



Figure 9. Speed boat an marine vessel

f. Analysis of patterns of achievement and circulation

Access from the northern ring road is the main access to tourist sites, while access from the Tanjung - Bayan highway is an alternative access. Each access can be connected with circulation designed in the area (micro circulation). Circulation in the

area is divided into 2, namely pedestrian circulation and circulation of vehicles such as cars, motorbikes, tourist buses, and goods trucks

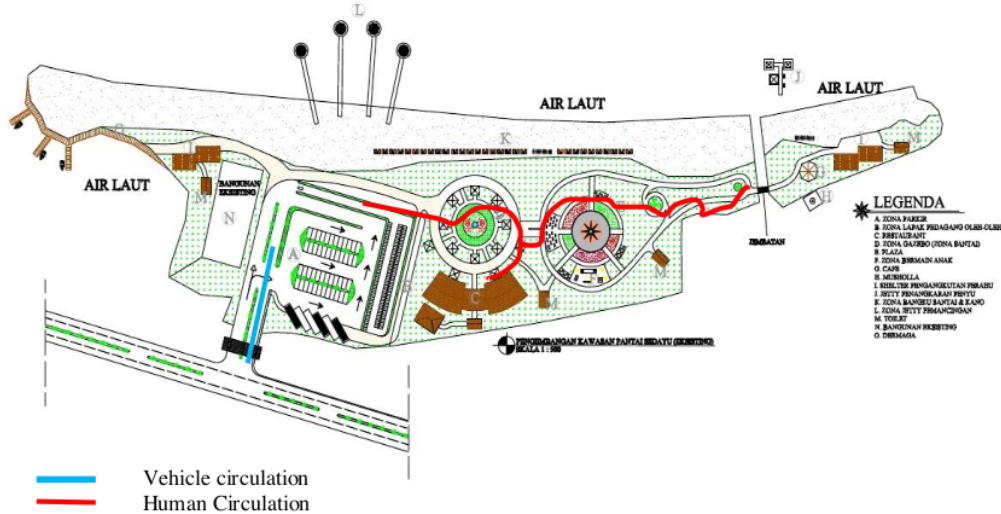


Figure10. Circulation of vehicle and human

g. Analysis of Building Structure and Materials

The climate in the coastal area is humid but the temperature is hot. Buildings can be durable by using materials that are suitable for the climate in the coastal area. Alternative materials that can be used such as: bamboo has shock-resistant properties, is resistant to bad weather such as rain, is flammable, wood has a flexible nature, is easily porous when eaten by termites. Concrete has a durable, expensive and polycarbonate roof, transparent and can protect from sunburn suitable for recreational areas

h. Analysis of Building and area utilities

According to Inskip [4], the general impact of tourism is: positive impact, tourism if it has good planning and management, can maintain and improve environmental conditions in various ways. The positive impacts of tourism are conservation of protected areas, conservation of archeological sites, improvement of environmental quality, improvement of the environment. And the negative impact, tourism development that have bad planning, development and management will have a negative impact on the environment.

From the statement above, it is clear that the management of regional utilities must be well planned. One of them is sanitation, which according to Fanjari [5] environmental sanitation is an effort to create a healthy environment that is free from disease. In the complete biology dictionary [6] environmental sanitation is a way of healthy human environment, especially the physical environment, namely land, water, and air. This can mean that environmental sanitation is an effort to make the environment stay healthy and not cause disease. As for waste management, it is planned that there will be a place for garbage collection which will be routinely taken by the Public Works Agency in the field of cleaning and waste to be taken to the final shelter. Perspective of Sedayu Beach Tourism design could be seen in Figure 11.



Figure 11. Perspective of Sedayu Beach Tourism design. (a) Gate of Sedayu Beach, (b) Area Pier area, (c) Bamboo restaurant and berugaq as a place to eat and relax, (d) Plasa in a green open space



4. Conclusion

The conclusion is that by designing of Sedayu beach it will later become one of the tourist destinations with improvement of infrastructure and the accessibility of coastal and marine areas so that it can support the economic rate of coastal and marine communities. Revitalization of the area that functions as a turtle tourism area is directed at saving the existence of turtles, biota and abiota in the waters, improving and preserving the quality of the environment while securing coastal areas from the threat of natural disasters.

References

- [1] Law No. 10 of 2009 Chapter V Article 12 paragraph (1) Strategic area of tourism
- [2] Mahadi, K., and Indrawati, F. 2010. Arahana Pengembangan Obyek Wisata Pantai Tanjung Pasir Kabupaten Tangerang. *Journal of PLANESA*, Vol. 1, No. 1, May.
- [3] Law No. 27 of 2007, concerning Management of Coastal Areas and Small Islands, Chapter I article
- [4] Inskeep, E. 1991. *Tourism Planning An Integrated and Sustainable Development Approach*. Van Nostrand Reinhold. New York
- [5] Fanjari. 1993. *Nilai Kesehatan Dalam Syari'at Islam*, Jakarta : Bumi Aksara
- [6] Kashiko. 2002. *Kamus Lengkap Biologi*. Surabaya : Kashiko



Publisher : University of Mataram
Jl. Majapahit 62 Mataram
Phone. (0370) 633007



ORIGINALITY REPORT

14%

SIMILARITY INDEX

14%

INTERNET SOURCES

4%

PUBLICATIONS

4%

STUDENT PAPERS

PRIMARY SOURCES

1	www.scribd.com Internet Source	5%
2	www.eprints.unram.ac.id Internet Source	1%
3	lppm.unud.ac.id Internet Source	1%
4	icst2018.unram.ac.id Internet Source	1%
5	www.coursehero.com Internet Source	1%
6	sintadev.ristekdikti.go.id Internet Source	1%
7	Mohamad Taufiq Zulfikar Sarson, Sri Nanang Meiske Kamba, Julius T. Mandjo, Jufryanto Puluhulawa. "The importance of property certificate ownership for Gorontalo coastal indigenous community as social welfare efforts", AIP Publishing, 2022 Publication	1%

8	download.atlantis-press.com Internet Source	<1 %
9	doaj.org Internet Source	<1 %
10	litpam.com Internet Source	<1 %
11	Submitted to Universitas Atma Jaya Yogyakarta Student Paper	<1 %
12	iopscience.iop.org Internet Source	<1 %
13	sinta3.ristekdikti.go.id Internet Source	<1 %
14	fisika.unram.ac.id Internet Source	<1 %
15	id.123dok.com Internet Source	<1 %
16	ir.lib.hiroshima-u.ac.jp Internet Source	<1 %

Exclude quotes Off

Exclude matches < 10 words

Exclude bibliography On