

## Program Wisata Bebas Sampah Berbasis Waste Management Pada Kawasan Wisata Mandeh Kabupaten Pesisir Selatan

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This community service aims to increase community knowledge and awareness in managing household waste into economical products. The method used is to apply the concept of zero waste management or reduce waste independently by collecting, selecting, and managing dry waste. The results of dedication show that (1) a caring or environmentally conscious group or community has been formed, namely the Nagari Mandeh Waste-Free Environmental Care Group consisting of Housewives; (2) an increase in community knowledge and understanding of waste management and environmental awareness by not littering as seen from the behavior of collecting and sorting waste; and (3) increasing people's understanding of the management of dry waste into products that have economic value and can bring income to those who are seen from behaviors that have used waste to become economic products such as decorative broomsticks made from palm leaves and plastic waste and accessories (brooches), decorative bun, box pins, and once) from waste plastic.

**Keywords:** Waste-Free Tourism, Zero Waste Management

Pengabdian masyarakat ini bertujuan untuk meningkatkan pengetahuan dan kesadaran masyarakat dalam mengelola sampah rumah tangga menjadi produk ekonomis. Metode yang digunakan adalah dengan menerapkan konsep *zero waste management* atau mengurangi sampah secara mandiri dengan melakukan pengumpulan, pemilihan, dan pengelolaan sampah kering. Hasil pengabdian menunjukkan bahwa (1) telah terbentuk kelompok atau komunitas peduli dan sadar lingkungan yaitu Kelompok Peduli Lingkungan Bebas Sampah Nagari Mandeh yang terdiri dari Ibu-Ibu Rumah Tangga; (2) terjadi peningkatan pengetahuan dan pemahaman masyarakat tentang pengelolaan sampah serta telah memiliki perilaku sadar lingkungan dengan tidak membuang sampah sembarangan yang terlihat dari perilaku mengumpulkan dan memilah sampah; dan (3) peningkatan pemahaman masyarakat mengenai pengelolaan sampah kering menjadi produk yang memiliki nilai ekonomis serta dapat mendatangkan income bagi mereka yang terlihat dari perilaku yang sudah memanfaatkan sampah menjadi produk ekonomis seperti sapu lidi hias yang terbuat dari lidi nipah dan limbah plastik serta aksesoris (bros, sanggul hias, kotak jarum pentul, dan ronce) dari limbah plastik.

**Kata Kunci :** Wisata Bebas Sampah, *Zero Waste Management*

### BACKGROUND

Lack of awareness of the people of Indonesia to maintain cleanliness while caring for natural

beauty, so it's a scourge for the advancement of tourism in Indonesia. The damage continues to occur and gets worse because the garbage piled up even to damage the habitat of rare animals

and plants that live in these places. The incessant promotion of tourist attractions that are not accompanied by an awareness of visitors about garbage at tourist sites, will have a negative impact on Indonesia's tourism in the future. (Kumparan.com accessed August 18, 2018). South Pesisir Regency has quite a number of tourist destinations that have become tourist destinations in West Sumatra Province, one of which is Carocok Painan Beach with Pulau Cingkuak in District IV Jurai and Mandeh Tourism Area in District Koto XI Tarusan. Besides that, there are still other tourism objects, namely Langkisau Hill, Bayang Sani Waterfall, Timbulun Waterfall, Root Bridge, and Batu Kalang Tarusan. Besides that, South Pesisir Regency also has historical tourism objects, namely the Rumah Gadang Mandeh Rubiah, the Old Mosque, the Portuguese Fort and the traditional art of Rabab Pasisie.

Mandeh Tourism Area is one of the Regency Tourism Main Destinations (DUPK) in accordance with Regional Regulation No. 2 of 2015 concerning the Tourism Development Master Plan for the South Pesisir Regency. The type of tourism development in the Mandeh Tourism Area consists of Mandeh Boat Tour, Mandeh View Point, Mandeh Tourism Area Area, Underwater Tourism, Surfing, Fishing, Tourism Resort Development, Greening of Mandeh Tourism Area, Turtle Conservation, Special Interest Tourism, Rural Tourism, Tourism Seawater, river tourism, and waterfall tourism. Mandeh Tourism Area which is still beautiful and clean makes the area a tourist destination that is much in demand by tourists.



Figure 1. Piles of rubbish and the rise of tourist visits on one of the island's resorts in the Mandeh Tourism Area (Source: Personal Documentation, 2018).

Garbage is not only detrimental to humans but also damages the natural conditions by throwing trash into rivers which directly causes river water pollution and has a negative impact on human health, such as increasing diarrheal diseases, skin diseases, and so on (Ernawati, 2017). Therefore, it is necessary to manage waste appropriately and effectively. Kholil (2004) in Saribanon (2009) argues that future waste management needs to be more focused on changing the perspective and behavior of the community and prioritizing community involvement in its management (bottom-up) because it is proven that a top-down approach does not work effectively. Zero waste management is management by sorting, composting, and collecting goods worth selling (Ika, 2000). Therefore, in this community service program waste management based on waste management in the Mandeh Tourism Area of the South Coastal District with the aim of increasing public knowledge and awareness in managing household waste into economic products.

## METHOD

Community service activities through partner village development programs in collaboration with Wali Nagari, Chairperson of Ecotourism,

Chairperson of PKK, Department of Environment, and Tourism Office to manage waste in the Mandeh Tourism Area to become Zero Waste Management based on Zero Waste Management. Following are the stages of implementing the garbage-free tourism program activities, such as:

1. Collaboration with Wali Nagari Mandeh, Ecotourism Chairperson, PKK Chairperson, and local community in preparing and designing the MSME and Zero Waste Management-based Village program.
2. Form a caring and environmentally conscious group/community that is willing to control and supervise the implementation of a clean and free of waste environment and an even and representative waste disposal facility.
3. Provide training and understanding of the importance of waste management in attractions.
4. Provide training and understanding of ways that can be done in managing waste on tourist attractions.

## RESULTS AND DISCUSSION

Waste is the residue of a business or activity (human) that is solid (in the form of organic or inorganic substances that are biodegradable or non-biodegradable) and is considered to be no longer useful so that it is discharged into the environment (Slamet, 2011). Waste management-based tourism program based on waste management in the Mandeh Tourism Area has been implemented by involving a group of women in Kanagarian Mandeh District XI Koto Tarusan in collaboration between Wali Nagari Mandeh and the Padang State University Community Service Team. The results of the implementation of zero waste management-based tourism program activities that have been carried out can be described as follows:

1. **Establishment of a Waste-Free Environmental Care Group**

The community service activity was attended by the Nagari Mandeh apparatus, the South Coastal Tourism Office, and was participated in by the 25 Magari Mandeh Community. The participants of this community service will directly become the Mandeh Area Environmental Awareness Group consisting of housewives.

2. **Sosialisasi Program Pengelolaan Sampah Berbasis Zero Waste Management**

The socialization of the free waste management Mandeh tourism program based on zero waste management aims to provide an understanding that the Mandeh area has become a marine tourism area that is visited by many local and foreign tourists. However, the problem of garbage is still a big problem, moreover, the awareness of the public and tourists not to throw littering is still low, so that when garbage has piled up it creates new problems. Therefore, groups that care for the environment free of waste that has been formed need to implement efforts to reduce waste based on zero waste management by carrying out activities of collecting, sorting, and managing plastic waste. The collection activity explained that the community is obliged to collect household waste and other activities, but there is a separation or selection of garbage between plastic waste and wet waste. After two or three days the community is required to weigh to find out the amount of waste product that has been produced. As a result, the community enthusiastically collected and

separated the plastic or dry waste that was seen in the following service activities, which collected an average of 75kg-110kg of dry waste.

### 3. Management of Dry Waste into Economical Products

#### a. Training on making Plastic Flower Brooches

The brooch training was held at Balai Balai Nagari Mandeh attended by Nagari officials, Community Service Teams, Instructors, and trainees as many as 25 people consisting of PKK Nagari Mandeh mothers and community representatives. At this meeting, participants were taught to make souvenirs in the form of brooches or decorative hijab pins from plastic waste, which are plastic bags from food wrappers. Before starting the training, the instructor activities Mrs. Dra. Jupriani, M. Sn first give direction or steps in its making. Materials and tools used include: (a) Used plastic bags of various sizes and colors (b) Used plastic cake/bread / crackers of clear color (c) Used Cover of Palette Cover Map (d) Yarn, Glue Scissors and Knife Scissors. After giving a briefing on how to make a brooch/pin as well as the materials and tools used, each participant was given the opportunity to make a brooch according to the instructions given and be creative in accordance with their creativity.



**Figure 2. Participants Showing their Work Results Brooch**

#### b. Ninja Sweep / Carpet Cleaning and Mattress Training

This training activity was attended by 25 participants. This meeting participants will be trained to make a dust cleaner, carpet cleaner, or Broom Ninja from Nipah sticks. The selection of palm chips as material for skills in this training is not without reason, because palm branches are part of the natural potential that is widely grown in the Mandeh Region so it needs to be utilized and managed well. Technicals make the process guided directly by Mrs. Dra. Jupriani, M. Sn, and assisted by the dedicated team. Before the training, the instructor gave a briefing on materials and tools for making ninja cows or palm brooms, including palm chips prepared by participants, ropes/rubber, used plastic bags of medium size with various color variations, rapia ropes, scissors, cutters. The training was carried out in 3 stages, consisting of the preparation of sticks, binding of sticks, making the handles of hands and decoration, trimming the decoration of his hand to make it look beautiful and coloring. This coloring technique is the same as the coloring technique on the fabric, the difference is only in this training that is colored is the sticks that have been tied up that will be used as broomsticks to make handicrafts or souvenirs typical of Mandeh by the PKK Nagari Mandeh mothers association who are participants in this training.



**Figure 3. Participants showing a ninja broom/carpet and mattress cleaner**

### c. Training in Making Chignons and Safety Pins from Used Plastics

The training was held at Nagari Mandeh Centers, conducted by the UNP Community Procurement Team, followed by training participants consisting of Mother PPK Nagari Mandeh, and community representatives. At this meeting, the activity was in the form of training in making plastic bags and pins. Materials and equipment needed include: (a) Small, medium-sized used plastic bags with a variety of colors (b) Cups/cups used for ice cream (c) Yarn (d) Wax glue (e) Rubber (f) Scissors (g) Lighters and (h) Knives. Furthermore, the place of safety pins made from used plastic is made using materials and tools that are still the same as a hair bun from a palette. But the reconnaissance place is somewhat easier and requires a short amount of time in its manufacture. Before the participants make it, first the participants are taught the steps. After the participants understood and understood, each trainee was allowed to practice it. Participants are free to create and modify the examples given.



**Figure 4. Results of Plastic Bun**

**Figure 5. Safety Pin**

## CONCLUSION

The waste-free tourism area in the Mandeh area can be realized by implementing zero waste management. The concept of zero waste management is not management until there is no more waste generated because there is no human activity that does not produce waste. However, this concept emphasizes efforts to reduce to zero the amount of waste that enters the landfill. Zero waste management-based waste management in Nagari Mandeh Pesisir Selatan Regency is carried out independently by forming a waste-free environmental care group, collecting and selecting waste activities, and turning dry waste into economically valuable and marketable products such as ornamental brooms made from palm leaves. and plastic waste and accessories (brooches, ornamental bun, pin box, and ronce) from plastic waste.

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