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Dye at MSMEs Wong Kito Gallery
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Puspitahati

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#471 SUMMARY

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Authors	Ira Maya Sari, Maya Ulpa, Afrida Rahma Handayani, Puspitahati Puspitahati
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SUBMISSION METADATA

AUTHORS

Name	Affiliation	Country	Bio Statement
Ira Maya Sari	—	Indonesia	—
Maya Ulpa	—	—	—
Afrida Rahma Handayani	—	—	—
Puspitahati Puspitahati	Sriwijaya University	—	Corresponding author

TITLE AND ABSTRACT

Title
Utilization of Horticultural Waste as a Jumptan Batik Dye at MSMEs Wong Kito Gallery

Abstract
Abstract: The purpose of this research is to find out and analyze the use of horticultural waste as dyes in the manufacture of natural batik in MSMEs Galeri Wong Kito Palembang city. The research was conducted from September 2023 to February 2024 at MSMEs at the Wong Kito Gallery, Palembang City. The methods in this study were 1) Observed directly to the MSMEs of the Wong Kito Gallery to see the batik production process and the use of horticultural waste dyes; 2) Interviews with batik owners and artisans at Wong Kito Gallery to get information about dyeing techniques; 3) Literature Study. Data Analysis was carried out descriptively data in the form of tables, graphs, and qualitative analysis to conclude the effect of natural coloring on the quality of batik based on the results of interviews and observations. The result of this paper were 1) The Fezona Sriwijaya Group is committed to sustainability by strengthening the community and being an example in CSR programs that are not only socially and environmentally responsible, but also provide concrete benefits for people's daily.

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Dear Editorial and Reviewers
in the Sriwijaya Environmental Journal

Below I post the revised article.
Title: **Utilization of Horticultural Waste as Batik Jumptan Dye at the Wong Kito UMKM Gallery**

Please review again and hopefully it will be well received.
Thank You

Warm regards
DR.Puspitahati

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REVIEWER 1

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Utilization of Horticultural Waste as a Natural Batik Dye at UMKM Galeri Wong Kito

Abstract: This study aims to determine and analyze the use of horticultural waste as a dye in making natural batik at UMKM Galeri Wong Kito Palembang City. This program is a flagship Corporate Social Responsibility (CSR) program of PT PLN Indonesia Power Keramasan Generating Unit called Pesona (Plant-based Recycling on Ecoprint Innovation) Sriwijaya. This vulnerable group empowerment program includes economically weak women, those with disabilities, girls dropping out of school, farmers, and prisoners of the Women's Correctional Institution class IIA in Palembang City. This program is implemented with a Triple Bottom Line approach that focuses on the goals of planet, people, and profit, so that the program implemented will have an impact not only on social and economic life but also pay attention to the environment so that the empowerment program will be sustainable. As a result, the beneficiary groups feel the positive impact; socially, this program produces new groups that are active in empowerment; economically, there is an increase in member income; and environmentally, this program also helps reduce solid waste, especially horticultural waste as a natural dye and in processing liquid waste using a combination system of filtration and biological treatment to treat wastewater into clean water so that it saves the use of water and electricity.

Keywords: CSR, Empowerment, Zero Waste, Natural Batik

1. Introduction

Pesona (Plant-based recycling on Ecoprint Innovation) Sriwijaya is one of PT PLN Indonesia Power UP Keramasan's flagship CSR programs. Pesona Sriwijaya is a program formed in 2020 that was formed from existing potential. Pesona Sriwijaya is a synergy and collaboration

4. Himpunan Wanita Disabilitas Indonesia (HWDI) Hijrah	14 persons	2023
5.	20 persons	2024
TOTAL	133 persons	

2. Methods

The research method used in this research is a qualitative approach with a descriptive method. Methodology is the process, principles, and procedures we use to approach problems and seek answers [11].

The research data was taken from the research area located in accordance with the program implemented by the company. The data used in the preparation of research on the company's social innovation program are secondary and primary data. The primary data in this study is data obtained directly from informants through face-to-face interviews or other media to obtain an overview of activities and achievements that have been obtained. Meanwhile, secondary data includes written data and information related to the planning, implementation (monitoring), and reporting of program results.

3. Results and Discussion

Pesona (plant-based recycling on ecoprint innovation) Sriwijaya is one of PT PLN IP UP

Departing from the problem of horticultural waste and food waste around the environment that is not utilized and only accumulates in landfills, Pesona Sriwijaya comes up with the idea to minimize the waste by utilizing it into natural dyes in batik (Clean Batik or Natural Batik). Horticultural wastes used as batik dyes are gambir, ketapang, agarwood, coconut, and banana. As for food waste, the shrimp skin pulp is used in the mordanting (coloring) process as a color enhancer [7]. This Clean Batik / Natural Batik Making Program is called Palembang CINDO (Clean Batik Initiative for Indonesia). More details can be seen in Table 4.

Table 4. Waste Requirement Type and Function

N	Hortic o	Type of Horticul	Function	Quantity required /month	Purchase Cost (including transportation cost)
1	Shrimp Waste / Food Waste	Shrimp Shell Dregs	Color enhancer (mordanting)	20 - 30 Kg	Free

MR Maya Riantini
Pada abstract belum terlihat dengan jelas hasil analisis pemanfaatan limbah hortikultura sebagai perwana dalam pembuatan batik tulis, tolong di lengkapi

MR Maya Riantini
Pada akhir paragraph buatkan tujuan penelitiannya apa?

MR Maya Riantini
Metode diungkapkan lagi dan disesuaikan dengan tujuan penelitiannya

MR Maya Riantini
Harus lebih banyak explore lagi tentang hasil penelitiannya, karena sudah banyak data di tampilkan akan tetapi masih banyak yang belum dijelaskan secara detail dan komprehensif

Page 1 of 1 English (Indonesian)

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program in the community. Pesona Sukuaya is a synergy and collaboration of five groups or communities, namely Keramasan Crafter, Bukit Crafter, Aksara Group, Indonesian Disabled Women's Association (HWDD), and Hijrah Group (prisoners of Women's Correctional Institution class IIA Palembang City), where these five groups are fostered by the parent group called Galeri Wong Kito (GWK).

After testing in the lab as well as the results of testing using the above waste, the result of the production of natural batik with natural colors is beautiful, environmentally friendly, and can be purchased at a fairly affordable price for all.

Table 5. Tools and materials for making Natural Batik / Clean Batik per 20 batiks

No	Materials	Amount of	Function
1	<u>Dimordant</u>		Produces good color flatness and sharpness / color locking
	Material	500 gr	
	Soda	500 gr	
	Ash	1 Kg	
	Alum		
	Mixture of <u>Tohor</u>	10 pack	
	Lime and	(10 liter)	
	Conifers		
2	Clean Water	20 liter	As an <u>adonana</u> mixture, washing and removing the remnants of batik niche that

Flowchart: Persiapan (Tawas, Soda Ash, Kijang Kuning) -> Mordanting kain -> Pembuatan Pola -> Produksi / Pengrajaan -> Pemasaran (Pengiriman ke toko online, offline) -> Pengemasan (Kemasan sesuai kebutuhan)

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well as to capture the workforce which there is an overload in production [12]. For the welfare of the group itself, there has been an increase in revenue of about 50% according to the amount of production, or Rs. 3,850,000 per month.

4. Conclusion

Based on the results of the research and discussion that has been done, it can be concluded that: 1) Pesona Sukuaya is a combination of 5 Sukandi groups that are not only based on UMKM but also care about environmental issues. 2) Sukuaya's charm is presented with a new terobosan named Palembang CINDO (Clean batik Niative for INDONESIA), where the batik dye is derived from holicultural waste and food residue obtained from around the enterprise environment.

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Reviewer 2

1. State of the art dan novelty belum ada, permasalahan yang melatar belakangi studi ini belum terlihat. Tulisan pada latar belakang hanya berisi deskripsi bukan alasan dari permasalahan yang diselesaikan oleh studi ini
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5. Cara mengutip tabel masih salah
6. Tahapan metode tidak jelas. Jelaskan langkah-langkah detail yang dilakukan studi ini sehingga mendapatkan hasil dan bagaimana menarik kesimpulan dari hasil tersebut
7. Cara menuliskan judul gambar masih salah. Gambar belum dirujuk dengan benar dalam tulisan
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