



QUARTERLY RESEARCH PROGRESS REPORT

QUARTER: 4th

Research Title: Assessment of the Management and Disposal of Single-Use Absorbent Hygienic Products in Baybay City and its Impact on Water Resources

I. Program/Project/Study Objectives *(Please specify if it is a program/ project/study):*

Study Objectives:

- To assess the waste generation rate of single used hygienic products (diapers, sanitary pads, wet wipes) in Baybay City.
- To assess the disposal methods of single used hygienic products in Baybay City.
- To determine the water bodies that could potentially be affected by the disposal practices of single used hygienic products in Baybay City
- To identify the chemical components of menstrual pads, diapers and wet wipes and its associated impact to water.
- To provide recommendations on proper disposal of menstrual pads, diapers and wet wipes.

II. Relevance to VSU & College's Thrust and Priorities:

- **SDG 3. Ensure healthy lives and promote well-being for all at all ages.** Water pollution and contamination are one of the major sources of illness and diseases. Hence, the project responds to SDG 3 by ensuring that the community has access to good water quality.
- **SDG 5 Achieve gender equality and empower all women and girls.** Inaccurate knowledge about sanitary waste disposal is a great hindrance in the path of personal and menstrual hygiene management. Girls and women have very less knowledge about the health risks from improper disposal of menstrual waste (Kaur et. al, 2018). Menstrual hygiene including proper disposal of menstrual waste is essential to the well-being and empowerment of women and girls. Thus, the project apparently responds to SDG 5.
- **SDG 6 Ensure availability and sustainable management of water and sanitation for all.** The project's primary goal is to assess the water's quality and vulnerability to contamination of menstrual waste. These are essential components to be considered in implementing sustainable water resources management and eventually promoting improved sanitation management. Thus, the project responds to SDG 6.

- **SDG 8** *Promote sustained, inclusive and sustainable economic growth, full productive employment, and decent work for all.* Hygiene management enables women and girls their full potential. Thus, the project responds to SDG 8.
- **SDG 11** *Make cities and human settlements inclusive, safe, resilient, and sustainable.* The project responds to SDG 11 by evaluating vulnerable resources from chemical contamination of sanitary pads, diapers, and wet wipes which aids in the environmentally sound management and proper disposal of menstrual waste thereby promoting a safer environment.
- **SDG 17** *Strengthen the means of implementation and revitalize the global partnership for sustainable development.* The project responds to SDG 17 by collaborating with international partners from India in which solid waste, including sanitary pads, diapers, and wet wipes are a biggest problem. However, India is already taking action on this challenge by producing strategies to recycle menstrual pads. Thus, this partnership will give the VSU researchers the opportunity to learn from them.
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III. Highlights of accomplishments within the quarter

A. Targets for the quarter

- Coordination with Baybay City LGU and other stakeholders
- Identify interview respondents.
- Preparation of online survey questionnaire.
- Conduct interview with selected respondents and video shooting for the promotion of the research and introduced technology
- Analyze the interview results
- Locating the disposal sites and neighboring water bodies
- Review of related literature
- Review of policies and issues related to the disposal of single use hygienic products.
- Conduct community validation, presentation and dissemination of printed results to LGU Baybay and other concerned stakeholders.
- Writing technical report

B. Highlights of accomplishments

- Within the City of Baybay the project has identified a total number of 35,263 menstruating women ages from 12- 50 years old, and a total number of 5,508 households with children ages from 0-3 years old. Cochran's formula was used in calculating the sample size with 95% level of significance, which resulted to an overall sample population of 380 from menstruating women, and 359 from household with children ages from 0-3 years old.
- Conceptualize digital (Kobo Toolbox) survey questionnaire which consist of questions from Socio- demographic profile, Diapers, Wet wipes and Sanitary pads information, Waste Management and Disposal, and Water Risk Assessment.
- Analyze the collected data from 749 respondents.

- Conducted Key Informant Interview from respective LGU Personnel.
- Conducted desktop research/review of related literature on the possible chemicals present in single use hygienic products, and its possible impacts to water source.

IV. Physical Report of Operation

A. Research Program

	Particulars/Name and Brief Description of Utilized/ Commercialized Technologies	Number
Outcome Indicator		
1. Number of research outputs utilized by the industry or by other beneficiaries		
Output Indicator		
1. Number of research outputs completed within the year		
2. Percentage of research outputs published in internationally-referred or CHED recognized journal within the year		

B. Technologies/Information patented and commercialized

Technology Invention(s) New Information	Invention Patent Number	Date of Issue	Utilization of Invention		Name of Commercial Product
			Development	Service	
A. Technology Invention(s)					
B. New Information					

C. Research papers published (*Identify if articles were for Research, Extension, Innovation or MSc/ PhD Studies*)

	Title	Author (s)	Date/Year/Publication/ Publisher	Remarks (if Research, Extension, Innovation, Thesis, MSc/PhD)
a. Refereed Journal				
Institutional				
National				
International				
b. Semi-popular publ'n (newsletter, etc.)				
c. Popularized publ'n (technoguides, etc.)				
d. Book Chapter/s				
e. Books				

D. Citation

Research Output as Cited by Other Researcher(s) in Journal Activities									
Title of Research Output/ Published Journal Articles/ Book	Title of Journal & Vol. Issue/ Year	Keywords	Researcher (s)	Citation Details					
				Author(s) Who Cited the Research Output	Title of Article Where the Research Output Was Cited	Title of Journal	Vol. / Issue / Page No.	City/ Year Published	Publisher

V. Issues, Problems, and Recommendations

The approval of the proposal took time which resulted in delayed implementation of the project, and hindering the accomplishment of some targets.

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Endorsed by : **LILIAN B. NUÑEZ**

Director, ISRDS

Date Submitted : _____

Received by OVPREI-RPO: _____

Date Received : _____