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SIGNIFICANT PREDICTORS OF MICRO ENTREPRENEURS BY SEX DISAGGREGATION WITH CLIMATE CHANGE EXPERIENCE IN SABAK BERNAM SELANGOR

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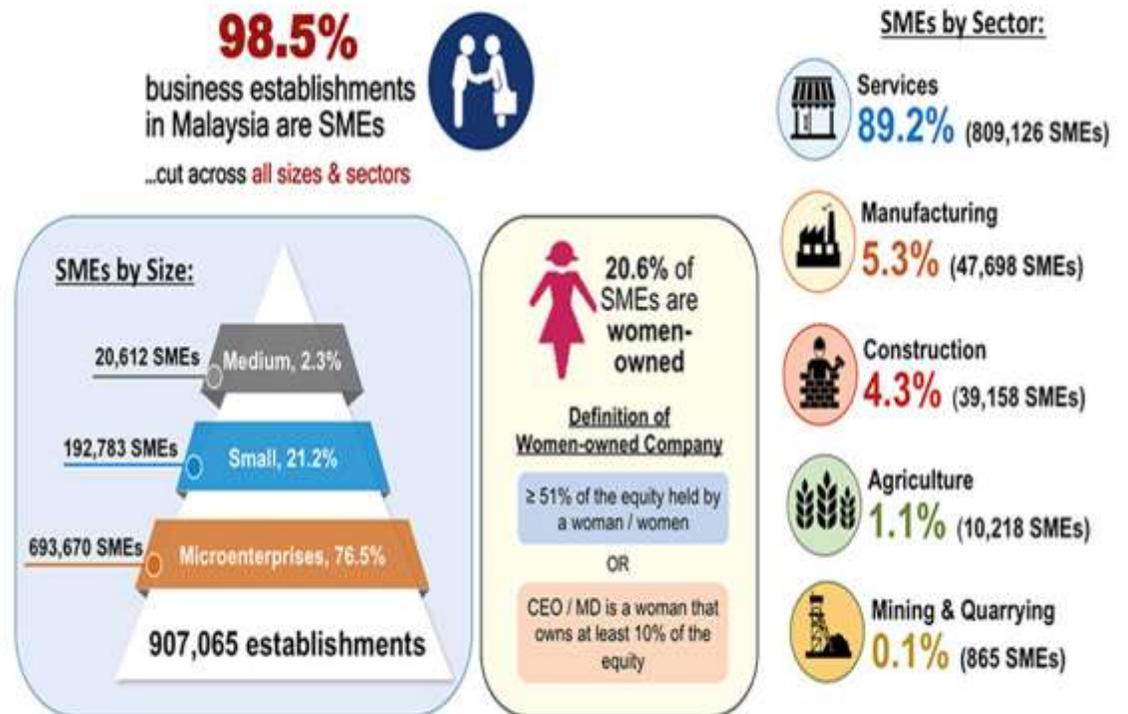
1. Introduction
2. Research Purpose
3. Methods
4. Findings
5. Conclusions

Survey with female micro entrepreneurs in
Sabak Bernam JAN 2025

INTRODUCTION

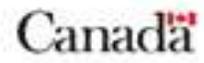
- **Micro-enterprise**
- **Micro-entrepreneur**
- **Blue Ocean Community**

SMEs are the backbone of the economy



Research Purpose

- The purpose of this study is to understand Climate Change Experience faced by Micro Entrepreneurs in Sabak Bernam Selangor, by Sex Disagregation analysis.
- 1. Describe the socioeconomic of 130 microentrepreneur by sex disaggregation in Sabak Bernam.
- 2. Explain the challenges and solution faced by microentrepreneur by sex disaggregation in Sabak Bernam.





Climate Change Impact

1. Flood
2. Rising sea level
3. Forest fire/haze
- 4. Economic loss (poverty)**
5. Dead soil
6. Health impact
7. Landslide
8. Drought
9. Changes in natural environment/build up landscape

Malaysia NPCC (2010)

Research Framework

- A- HH member**
- B- Gender of Respondent**
- C- 4 types of vulnerable :**
 - Older Adult
 - Day pay worker
 - Youth
 - Disability
- D- 5 subdistricts**
- E- HH monthly Income**
- F- Food Consumption Score**



- **Micro Entrepreneurs**
- **(Male/Female)**



Gender Sensitized Action Plans (GeSAP)



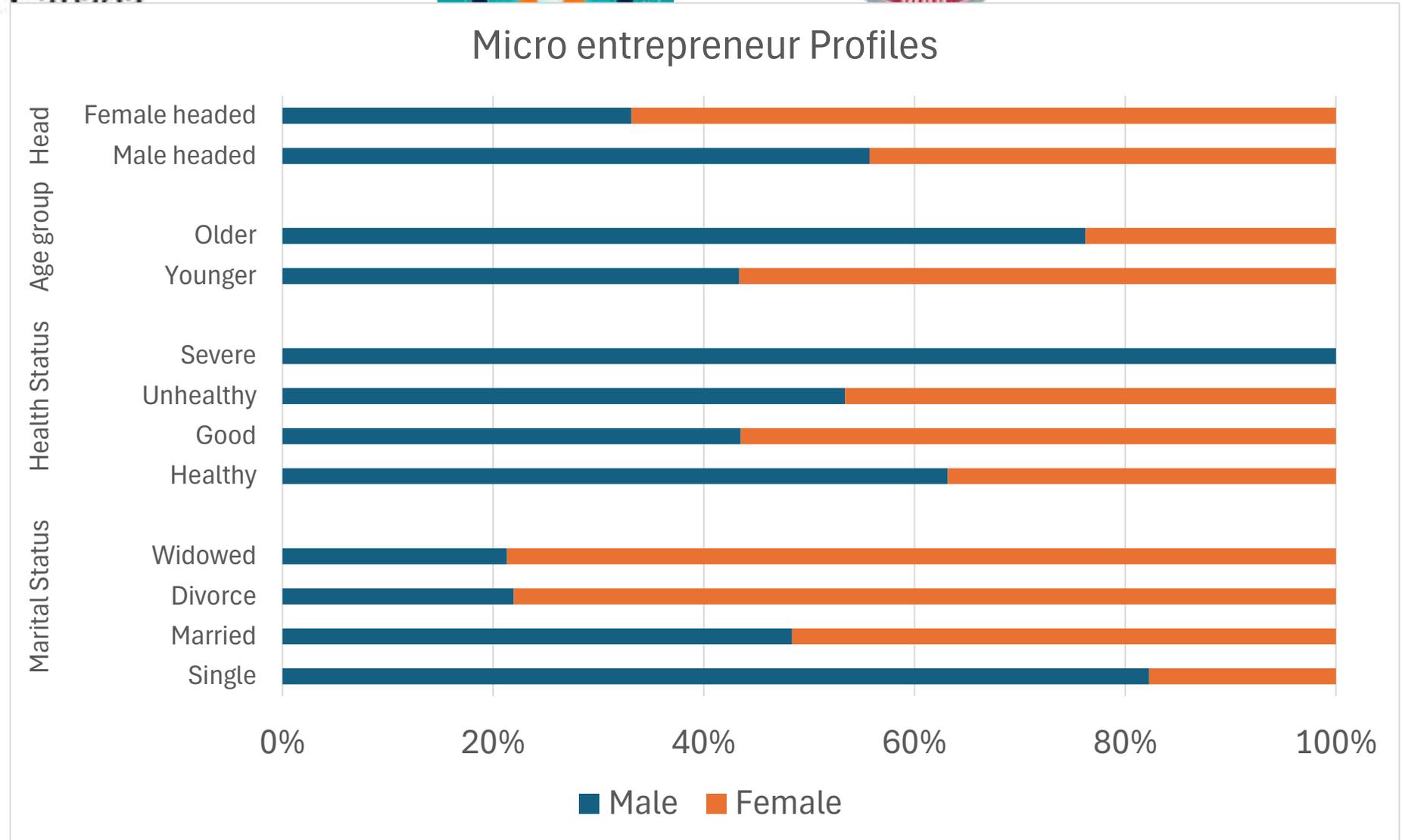
Methods

- Location: Sabak Bernam
- Data sources:
 1. the **SURVEY** ($n=274$); and $n=230$ (YES); $n=130$ microentrepreneurs with CCE
 2. Focus Group Discussion (**FGD**). The survey was among $n=274$, the responses are by sex disaggregation as in Table 1.

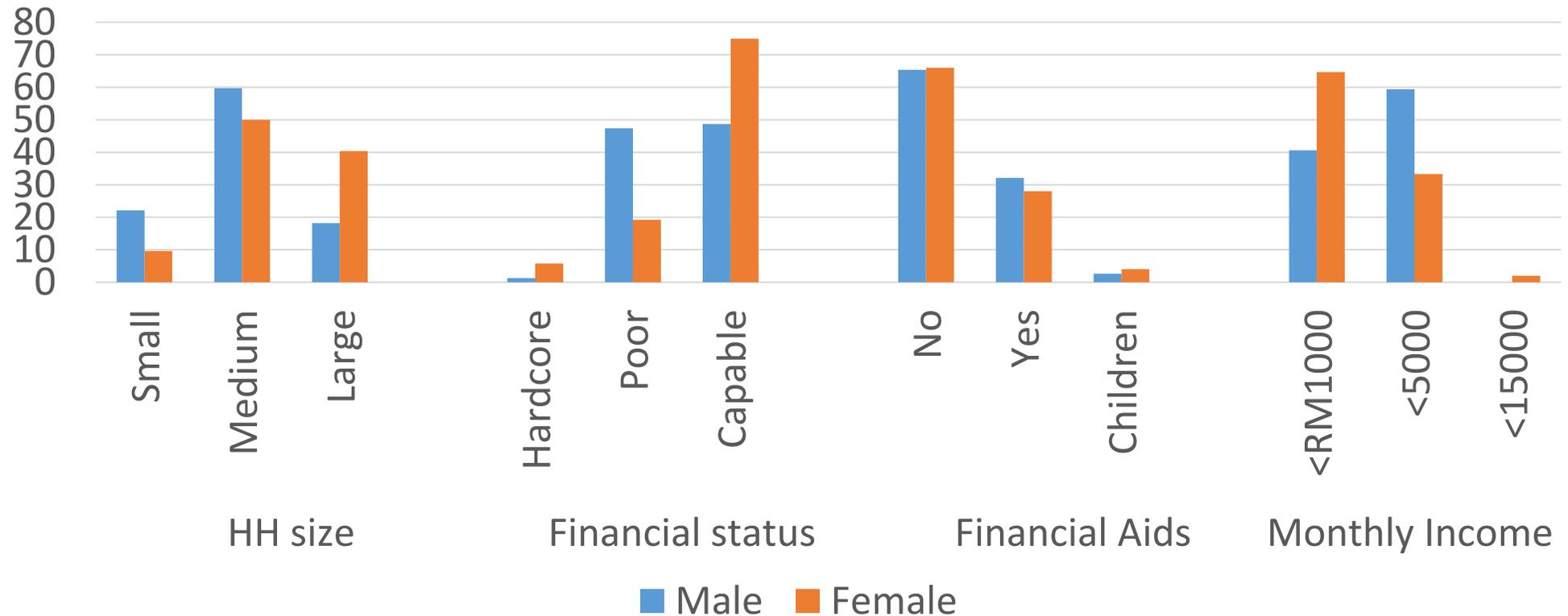
Table 1: Respondent Distribution

	Sabak	Pasir Panjang	Bagan Nakhoda Omar	Sungai Panjang	Pancang Bedena	Total
Male	8 (30)	21(30)	28 (30)	9 (30)	12 (30)	78 (150)
Female	9 (30)	13 (30)	14 (30)	12 (30)	4 (30)	52 (150)

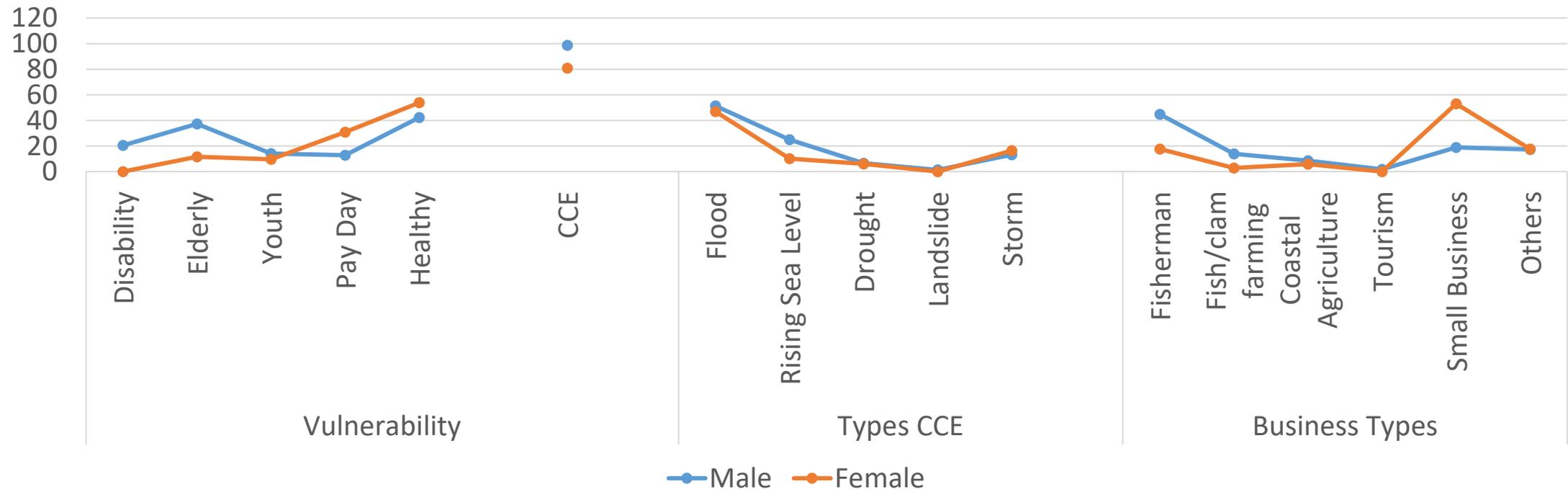
FINDINGS



Socio Economic Profiles of Micro entrepreneur



CCE faced by Microentrepreneur



**Table 01:
Distribution of
micro
entrepreneurs
(*n*=130)**

Type of Entrepreneur	Male		Female	
	<i>n</i>	%	<i>n</i>	%
Food Based	3	3.90%	15	28.30%
Agriculture	54	70.13%	24	45.28%
Others	20	25.97%	14	26.42%

Table 02: Wald Chi-Square (Female Model) (micro-entrepreneurs =1; not micro entrepreneurs=0)

	B	S.E.	Wald	df	Sig.	Exp(B)
Sabak			5.557	4	.235	
Pasir Panjang	1.187	.892	1.771	1	.183	3.278
BNO	2.488	1.426	3.046	1	.081	12.040
Sg Panjang	1.857	.905	4.213	1	.040	6.406
Panchang Bedena	.951	.725	1.722	1	.189	2.590
Older Adults (No=1)	1.218	.896	1.848	1	.174	3.381
Youth (No=1)	-.659	.758	.755	1	.385	.517
Day-pay workers (No=1)	2.162	.704	9.423	1	.002	8.687
Total Household Member Male	-.131	.210	.390	1	.532	.877
Total Household Member Female	-.152	.190	.639	1	.424	.859
Household Income	.000	.000	2.551	1	.110	1.000
Food Consumption Score (Poor=1)	1.290	1.017	1.609	1	.205	3.632
Constant	-3.011	1.501	4.025	1	.045	.049



The BLR model (female):

is significant ($p < 0.05$) with 29.7 percent variance in the DV explained by the IVs.

A similar group of IVs as in the male BLR model but without the 'disabled' variable.

Two significant predictors:

1. A respondent from Pasir Panjang had a 6.406 time likelihood (odds=6.406) that she is an entrepreneur
2. A day-pay worker explained an 8.687 (odds=8.687) time likelihood that she is an entrepreneur.

Table 03: Wald Chi-Square (Male Model) (micro-entrepreneurs =1; not micro entrepreneurs=0)

	B	S.E.	Wald	df	Sig.	Exp(B)
Sabak			18.297	4	.001	
Pasir Panjang	-1.149	.955	1.448	1	.229	.317
BNO	3.125	1.226	6.497	1	.011	22.753
Sg Panjang	-2.468	.878	7.900	1	.005	.085
Panchang Bedena	.056	.730	.006	1	.939	1.058
Disbaled (No=1)	-1.476	.886	2.774	1	.096	.229
Older Adults (No=1)	1.922	.574	11.197	1	.001	6.833
Youth (No=1)	1.754	.931	3.548	1	.060	5.776
Day-pay workers (No=1)	-.834	.868	.924	1	.337	.434
Total Household Member Male	-.594	.246	5.847	1	.016	.552
Total Household Member Female	.271	.212	1.634	1	.201	1.311
Household Income	.000	.000	7.246	1	.007	1.000
Food Consumption Score (Poor=1)	2.135	.960	4.947	1	.026	8.459
Constant	-1063.25	1.880	315.001	1	.973	.938

The BLR model (male):

It is significant ($p < 0.05$) with a 55.7 percent variance in the DV explained by the IVs.

The 6 significant predictors are:

1. The total number of family members (An increase one male 5 x),
2. Gender (male)
3. Young adults (6 x likelihood that he is an entrepreneur)
4. Sub-district locations (A respondent from Bagan Nakhoda Omar (BNO) 22x likelihood that male respondent is an entrepreneur)
5. Household income (An increase of RM1 of Household income)
6. Food Consumption Score (8 x likelihood that male respondent with poor score)



Conclusions and Recommendations

1. Male and Female faced the CCE, however males highlighted higher numbers than female entrepreneur. This is due to the types of business operations. Almost half of the male is a fisherman, and selling their catch for business and generate the family income. The weather is beyond human control, but, what strategies should they employ to sustain the micro business income sustain.

It is recommend that the fisherman has another skills such as coastal agriculture farming and food processing business.

2. The number of women as entrepreneur is higher in the female headed family. This is the concern for the coastal community to be aware the needs and want from this types of family.

It is recommend that the training for income generation for female headed family and their family members.



References:

Wiid, J. A., & Cant, M.C. (2020). OBSTACLES FACED BY OWNERS OF TOWNSHIP MICRO, SMALL AND MEDIUM ENTERPRISES TO ACQUIRE FUNDS FOR SURVIVAL AND GROWTH (2010-2020). *Entrepreneurship and Sustainable Issues*. 9(1).

Das, A., & Swain, P.K. (2024). Navigating the sea level rise: Exploring the interplay of climate change, sea level rise, and coastal communities in india. *Environmental Monitoring and Assessment Journal*.

Parra, J., & Jensen. M. (2025). Adapting to climate change: lessons from Chile's coastal communities. *International Journal of Climate Change*.

Purnomo, A. H., Kurniawan, T., & Farandy, A.R. (2024) Revisiting the climate change adaptation strategy of Jakarta's coastal communities. *Ocean & Coastal*

Wright, P., Deering, K., Tasew, A., Smith, E., Miruka, M. (2024). Scoping review on gender-disaggregated data in climate-smart agriculture



References:

- Zainalaludin, Z., Saidi., N., Ahmad. N., Jaafar J. N., and Md Akim, A. (2022). Socioeconomic Determinants of High Empowered CSO Leader by Age Categories among Rural Women in Malaysian Fisheries Community. *Malaysian Journal of Consumer and Family Economics*. Vol 29. Page 508-538
- Zainalaludin, Z., Foong., H. F., & Abdullah, S. F. Z., (2025). Gender, Ageing, and Poverty Issues among Malaysian Consumer, UPM Press.
- Saidi, N., **Zainalaludin, Z.**, & Jamaluddin, A. (2021). Gender Analyses on the Vulnerability Types Suffered by Poor and Older Freshwater Fisheries Community Members in Peninsular Malaysia. *International Journal of Academic Research in Business and Social Sciences*, 11(12), 2046–2069



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