

UNIVERSITI PUTRA MALAYSIA

Exploring Female Involvements in Malaysian Micro and Small Scale Aquaculture Operation (MiSAO)



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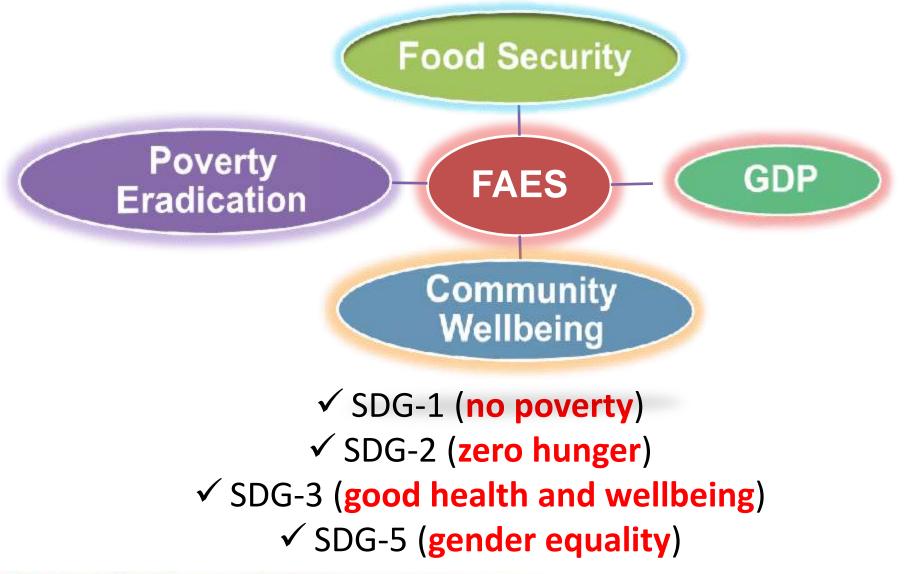
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INTRODUCTION

- The Fisheries and Aquaculture Economic Sector (FAES) is crucial especially for developing country due to its contribution to national protein food security and gross domestic product (GDP) for a country.
- Due to the masculinity of FAES, this study underlined by SDG5 (Gender Equality) to equally focus to male and female in FAES.
- Since female are always marginalized in FAES, this study aims to explore female involvements
- Focusing to Malaysian Micro and Small Aquaculture Operation (MiSAO)
- Associated with low-asset ownership and low productivity; very small size farms and largely owned, operated by household members and with female involvement

ROLES OF AQUACULTURE FARMING



METHODOLOGY

Method	Qualitative by using Nominal Group Technique (NGT)
Informants	Four wives of male operators and four MiSAO female operators by the advice of DOF office to identify the informants
Date	19th March 2018
Location	Kg Baharu Pulau Keladi, Pekan, Pahang
Duration	90 minutes







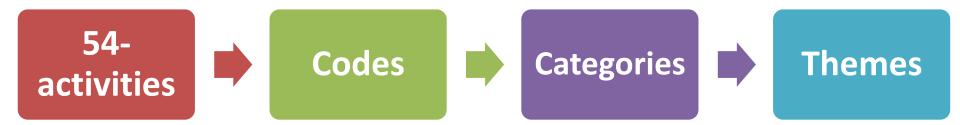


NGT PROCEDURE

- 1. Briefing
- 2. Form two small groups (SG)
- 3. Appointed group leaders for SG
- 4. Moderator explains the question
- 5. Participants in SG write 3-answer on each production level
- 6. Paste the answers on the board
- 7. SG group leaders present and the answers compared
- 8. Answers discussed, finalized and concluded



Data were analyzed through thematic analysis by using CodCaT (Coding, Categorizing and Themes)





Activities	Codes	Category	Code	Themes
Searching / provide capital	[1a]	Capital	[1]	[A] Financial
Managing the capital	[1b] [7a]	management		Management
	[13a]			
Budgeting	[2a] [7b]	Budgetting	[2]	
Cash flow	[7c]	Cash flow	[7]	
		management		
Calculating the income of the	[10] [13b]	Accounting	[13]	
fish that has been sold (the	[7d]			
amount of money from the				
sale)				

Notes:	Input	Throughput	Output	All Levels



Activities	Codes	Category	Themes
Cage planning	[1c] [2b]	Cage planning	[B] Food
	[3a] [13c]		Production
Giving suggestion to breed the fish	[3b] [4a]		
Site selection	[1d] [2c]		
	[3c]		
Building the cage	[3d] [13d]		
Calculating the amount of seed	[4b]	Fish seed	
Transfer fish seed to cage	[4c]	management	
Fish seed grading	[4d]		

	Notes:	Input	Throughput	Output	All Levels
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AGRICULTU

ON . LIFE

	Activities		Codes	Category	Code	Themes
Buying fisl	ng fish pallet			Fish	[5]	[B] Food
Helping hu	usband feed	the fish	[5b]	feeding		Production
Ensuring t	hat fish are f	ed enough	[5c]			
for fish gro	owth					
Buying the	e seeds and	pallet	[5d]			
			[2d]			
Monitoring	the water c	onditions	[6a]	Evaluation	[6]	
			[12a]	and		
Repairing	the leaky or	damage	[6b]	monitoring		
cage				the cage		
Monitoring	the cages a	area (theft,	[6c]	safety		
pest)			[15a]			
Monitoring	the cage ar	ea during	[6d]			
midnight			[10]			
			[15b]			
Notes:	Input	Output	l	All Levels		
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Activities	Codes	Category	Code	Themes
Catching the fish	[7a]	Fish	[7]	[C]
After harvest fish grading	[7b]	harvest		Marketing
Washing and cleaning caught	[7c]			
fish				
Calculate the amoung of caught	[7d]			
fish				
Finding fish buyers	[8a]	Selling	[8]	
	[14a]			
Managing order from wholesaler	[8b]			
Distribute fish to buyers	[8c]			
Selling the fish at the cage stall	[8d]			
	[14b]			

Notes:	Input	Throughput	Output	All Levels
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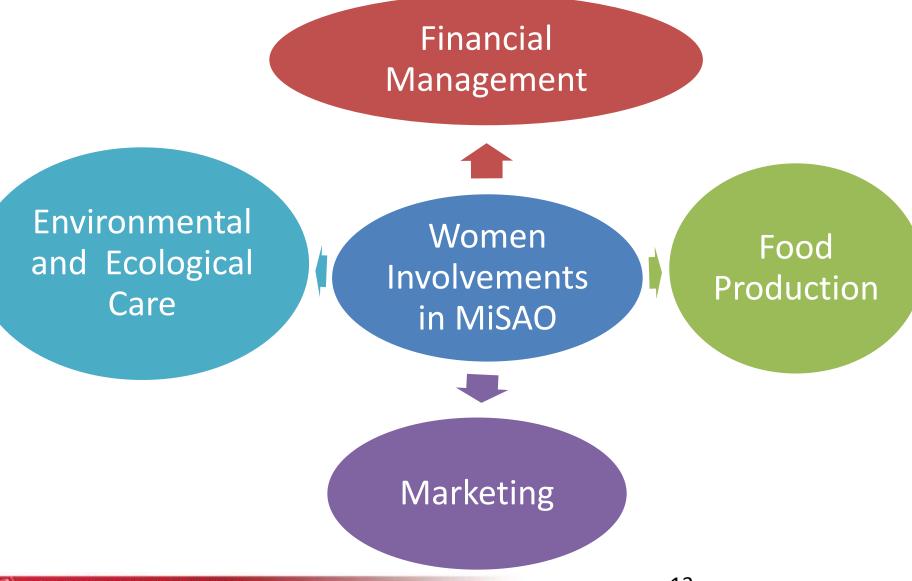
Activities	Codes	Category	Code	Themes
Fish packaging (frozen fish)	[9a]	Food	[9]	[C]
Process fermented fish	[9b]	processing		Marketing
Process fish before frozen	[9c]			
Preparing Patin Tempoyak paste	[9d]			
Have social site to communicate with others fish operators	[14c]	Social capital / networking	[14]	
Dealing with fish buyers and selling the fish at current market price	[14d]			

Notes:	Input	Throughput	Output	All Levels
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Activities	Codes	Category	Code	Themes
Observing the climate change	[10a]	Climate	[10]	[D]
Discussing with husband on weather	[10b]	situation		Environmental
condition				and Ecological
Emergency plan for monsoon season	[10c]			Care
Emergency plan for drought season	[10d]			
Clean the grass around the cage	[11a]	Waste	[11]	
Clean up the river around the cage from	[11b]	management		
garbage and driftwood				
Planted pesticide containers, pallet	[11c]			
plastic bag				
Identify the death seed or fish then move	[11d]			
out from fish cage either burned or				
planted				
Treat the sick fish	[12b]	Fish disease	[12]	
Acceptance of percentage of fish death	[12c]			
Move out the sick fishes and wash with	[12d]			
salt water		-		
Control pest	[15c]	Pest	[15]	
Catch pest by using poison or traps	[15d]	management		
Notes: Input Throughput	Output	A	All Level	S

CONCLUSION



RECOMMENDATION

- Women aquaculture operators have to involve in MiSAO proper training and capacity building
- Opportunities of grant and loans
- Relevant policies and programs to enhance women involvements
- □ The concept of **family cage farm** proposed where husband and wife together manage and operate the farm; and then policies should be aligned to develop family farm

FEMALE INVOLVEMENTS IN MALAYSIAN MISAO









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