Gender Perspective in Wild Seaweed Value Chain: A Case from Gulf of Mannar and Palk Bay, Tamil Nadu

Theme: Gender Justice & Institutional Roles: Policy Regime, roles of civil society, academia and institutions at national and global levels

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Indian Scenario of Seaweed Production



- 5300 t culture (0.02 % of the global seaweed cultivation)
- 18,400 t wild stocks (1.7% of global wild seaweed collection), contributes 77.64% of the total seaweed production

 The wild harvest includes several species i.e., Gelidiella acerosa, Gracilaria edulis, Gracilaria crassa, Sargassum sp, and Turbinaria sp

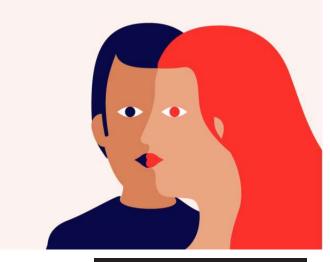
- The entire farmed biomass is from the single species
- Kappaphycus alverizii

Purpose of the study

- Men are dominantly involved in fishing, women work in offshore and are involved in harvesting seaweed, collecting shellfish and oysters, etc. as well as processing and marketing it taking their numbers higher than that of men
- Promoting women's equal footing with men has become a pressing issue in many development programs, leading to the advent of gender-inclusive value chain approaches
- Gender-inclusive value chains essentially aim to reflect the different roles that women and men play in value chains and capture the gains of marginalized groups in the market systems
- Gender-disaggregated data on employment in the wild seaweed value chain, as well as on incomes and wages, remain lacking
- Therefore, the present study analyses the wild seaweed value chain in the Gulf of Mannar and Palk Bay region from a gender perspective



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Study locale

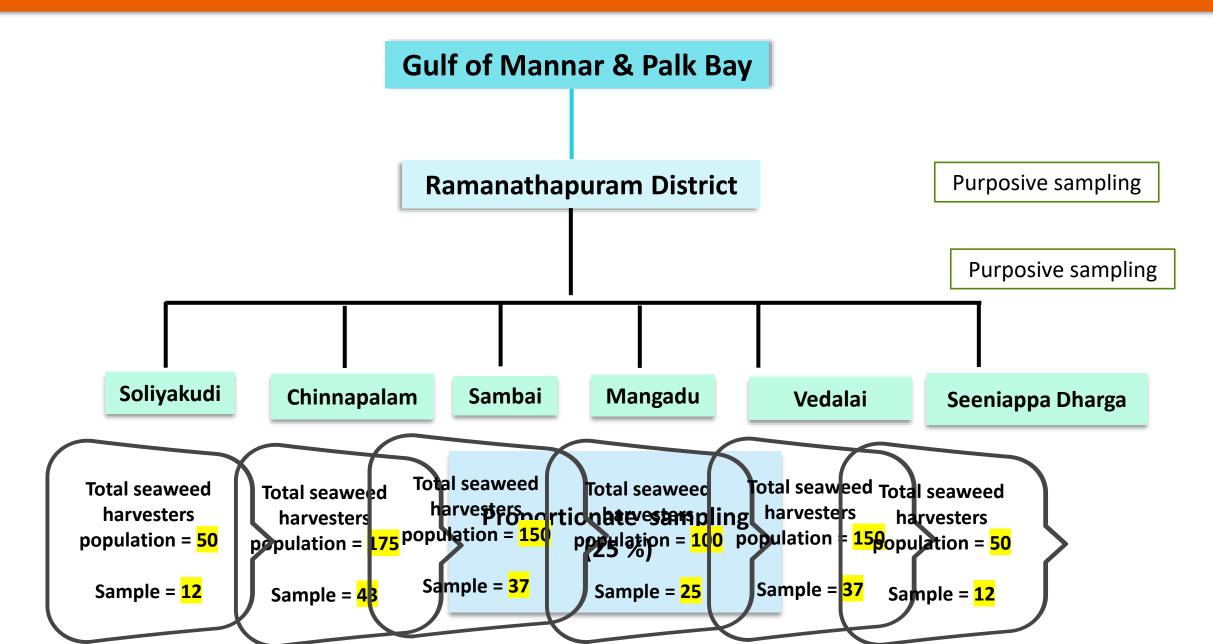
Hence,

Bay

Dharga - GoM

Tamil Nadu ✓ Gracilaria - Soliyakudi village ✓ Gelidiella - Sambai, Mangadu and **Chinnapalam villages** ✓ Sargassum and Turbinaria - Vedalai and Seeniappa Dharga villages Soliyakudi ✓ Sambai, Mangadu and Soliyakudi - Palk Mangadu Sambai Seeniappa 📍 🏓 \varTheta Chinnapalam ✓ Chinnapalam, Vedalai and Seeniappa Vedalai dharga Ramanathapuram district Activate Wir Go to Settings to Sri Lanka

Sampling Design





Sample of seaweed harvesters = 166

Snowball sampling was used for identifying the remaining value chain actors

Seaweed agents = 12

Processors = 7

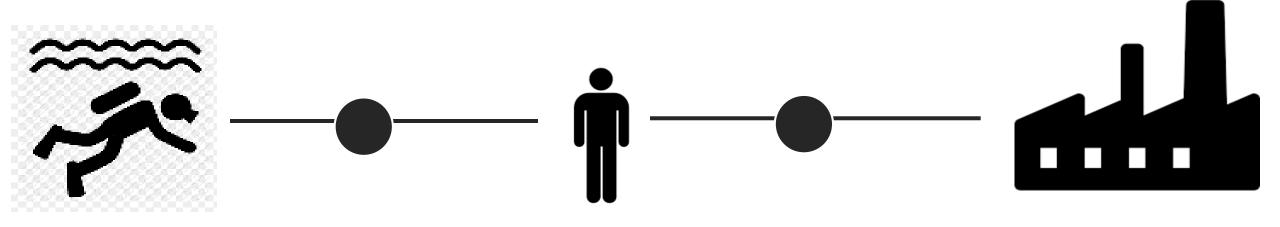
Total sample size = 185

Methodology

- Value chain mapping
- Descriptive analysis
- Graphical analysis
- Cost- benefit analysis
- Marketing analysis

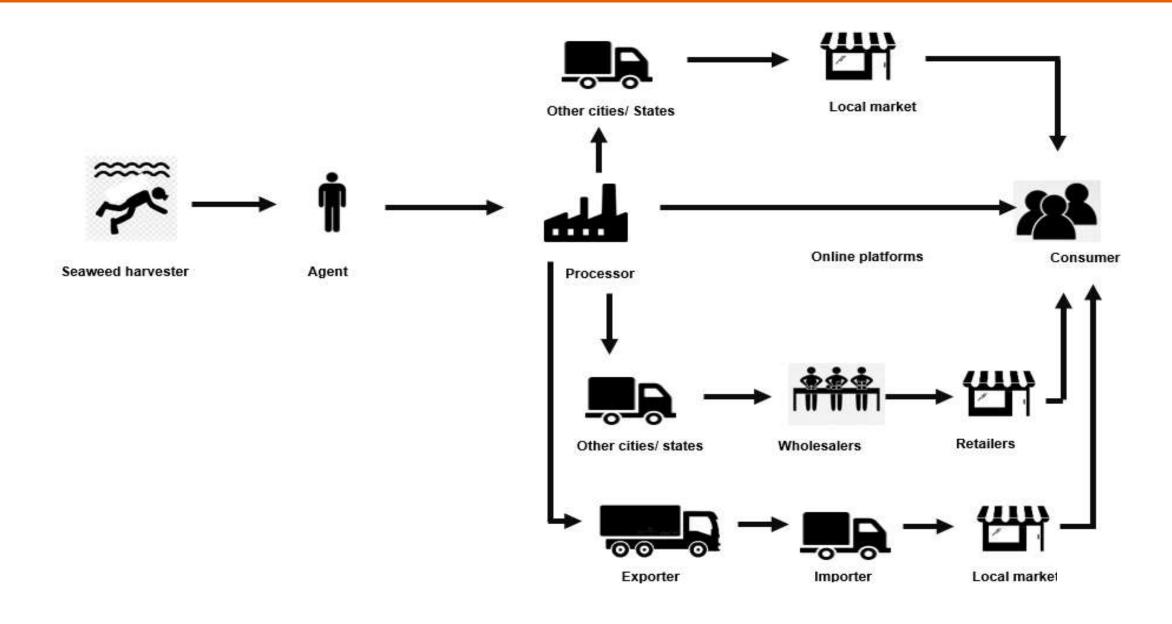


Major value chain actors

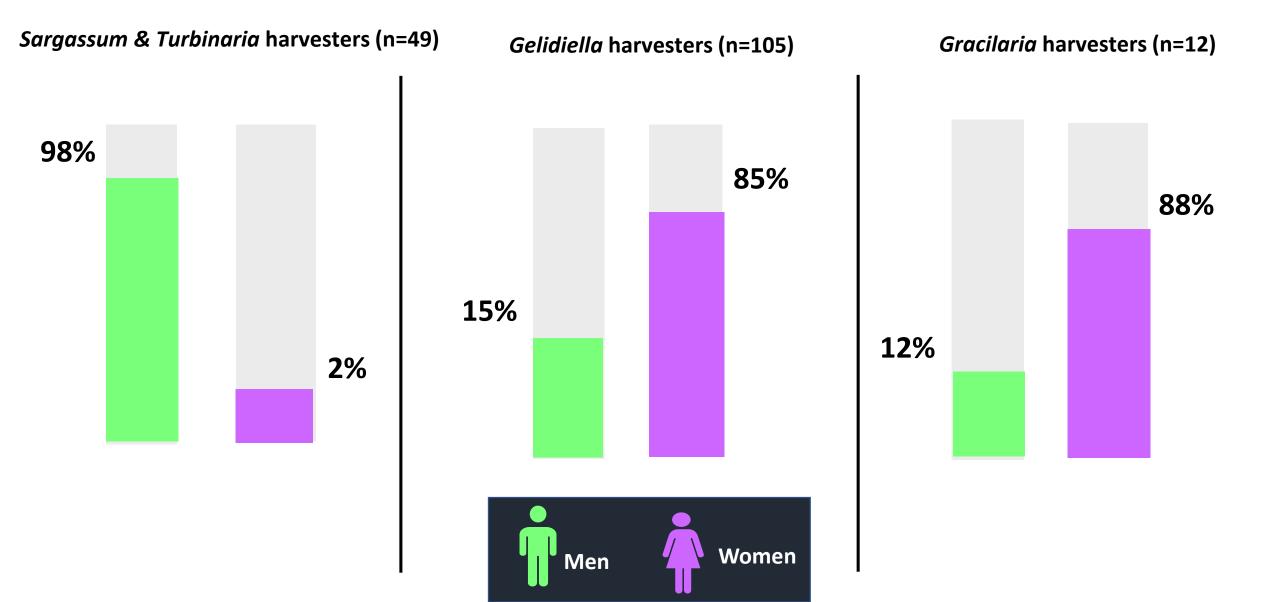


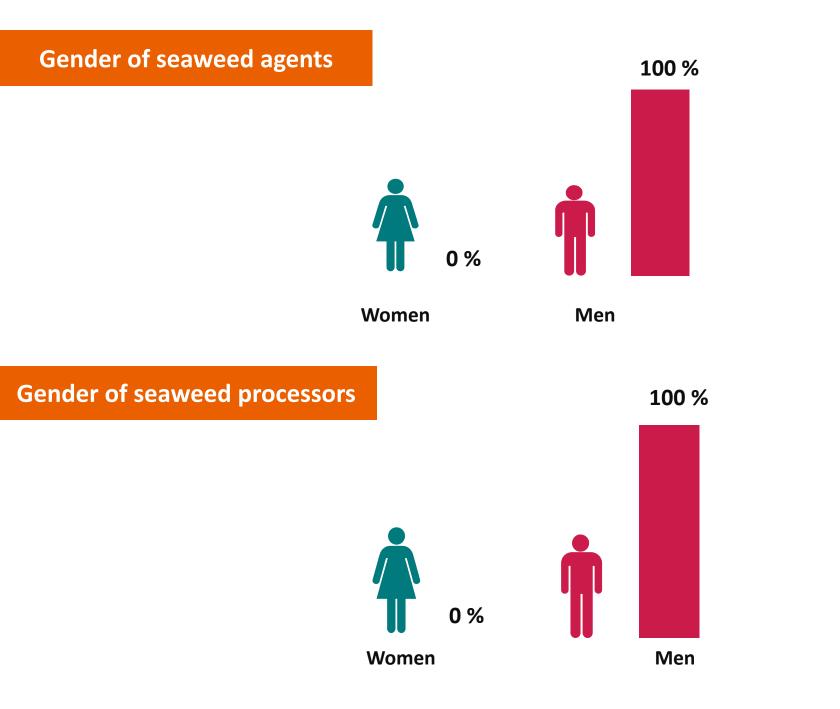
Seaweed harvesters Seaweed agents Seaweed processors

Mapping of actors in value chain



Gender profile of seaweed harvesters







- The upstream and downstream actors have clear gendered employment
- The wild seaweed harvesters are predominantly women
- It has also largely stuck with traditional gender roles; men being primarily involved in fishing, the women engaged in seaweed harvesting, which contributes significantly to the household income
- All the agents are men and they hire daily wage women laborers to dry the seaweed
- All processors are men, and they employ both men and women for processing





Processors distribute their products all over India and to countries such as South Africa, the







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Economic analysis of value chain actors

Particulars	Sargassum and Turbinaria (₹/ ton)	<i>Gelidiella</i> (₹/ ton)	<i>Garcilaria</i> (₹/ ton)
Seaweed harvester			
Total operating costs	3,635.48	1,340.08	970.92
Gross income	12,000	50,000	11,000
Benefit-cost ratio (GI/TC)	3.3	37.31	11.33
Agent			
Total cost	12,768.50	51,036.62	11,444.23
Gross income	19,500	77,500	18,000
Benefit-cost ratio (GI/TC)	1.53	1.52	1.57
Marketing margin of agent	6,911.64	26,647.63	26,647.63
Processor			
Total cost	67,105.21	93,963.99	36,834.33
Gross income	3,36,983.33	1,87,200	75,683
Benefit-cost ratio (GI/TC)	5.02	1.99	2.05
Marketing margin of processor	3,07,700	1,06,836	50,943
Producer share in consumer rupee (%)	3.56	26.71	14.53
Price spread (%)	3, 24,983.33 (96.44 %)	1, 69,000 (73.29 %)	64,683 (85.47 %)
Marketing efficiency	0.04	0.36	0.13

Attire of an Indian seaweed harvester

Shed of agent





Seaweed drying by the daily wage laborers



- The income considerably increased from the upstream actors to the downstream actors
- Even though, the products fetch a high price in the domestic and global market, the harvesters received a paltry sum and are exploited advertently
- The BCR for all the value chain actors was found to be more than one which provides strong evidence of the economic feasibility of seaweed harvesting
- The processors are the major actors and enjoys high marketing margin
- The price spread is found to be high (> 73 %) for the selected species, irrespective of fewer intermediaries, indicates the exploitation of these marginal seaweed harvesters by the downstream actors
- Marketing efficiency is estimated to be low; this is reflected by the low price obtained by the harvesters, high marketing margin, and high consumer price.



Conclusion

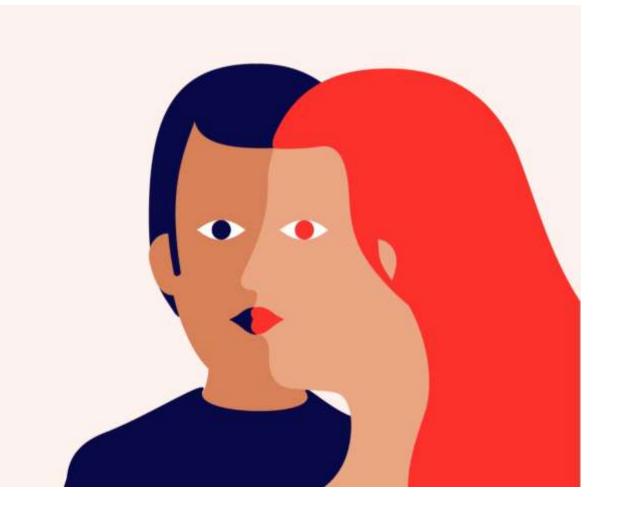
- Compared to the harvesting stage, the involvement of the women were less obvious at the downstream level
- The processors receive the **lion's share** of profit among the value chain players'
- Gender analysis of the wild seaweed value chain facilitates the exposition of women's and men's contributions and their roles, which the usual market analysis would not be able to present
- Women need to have collective voices- demand equity and share (FPO formation)
- It is recommended that in order to develop gender-inclusive policies and interventions in this sector, a systematic large-scale study can be conducted to gather more empirical facts and figures



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Thanks for listening with great patience

